

General Services Administration Blanket Purchase Agreement

FOR

MEGASTAR

**A procurement by the
U.S. General Services Administration on behalf of the
National Air and Space Intelligence Center (NASIC)
Wright-Patterson Air Force Base, Ohio**

**Solicitation Number: ID05190006
Blanket Purchase Agreement Number: ID05190006006**

**This BPA is awarded in compliance with The Federal Acquisition Regulation,
Subpart 8.405-3, under the Professional Services Schedule 00CORP
Special Item Numbers (SINs) 871-1 Strategic Planning for Technology Program/Activities, 871-2
Concept Development and Requirement Analysis, 871-3 System Design, Engineering, and
Integration, and 871-4 Test and Evaluation**

**NAICS 541330 Engineering Services
Product Service Code (PSC) R425 Engineering and Technical Services**

1. Basis of Agreement

This Blanket Purchase Agreement is established under the GSA Professional Services Schedule (PSS), Special Item Numbers (SINs) 871-1, 871-2, 871-3, and 871-4, Schedule Contract Number GS-00F-350CA. Unless otherwise stated, the terms and conditions of the schedule contract apply to this agreement and all orders placed hereunder.

2. Description of Agreement

The Contractor agrees to furnish the services described in the MEGASTAR Performance Work Statement (PWS), attached as BPA Attachment 1, if and when ordered by the Contracting Officer or an authorized representative, during the specified term of this agreement. The Scope of Work shall be as described in the MEGASTAR PWS and further defined within each order PWS.

3. Term of Agreement

This agreement is effective for a five year basic ordering period (1 Oct 19 – 30 Sep 29), with five, one-year optional ordering periods, for a total potential duration of ten (10) years (1 Oct 19 – 30 Sep 29). Orders issued against this BPA will be established with their own period of performance which may include options. If the period of performance of this agreement is limited due to the expiration of PSS contract upon which this BPA is based, the original period of performance may be reinstated upon execution of an extension or replacement of that PSS contract.

4. Order Types and Locations

While firm-fixed price orders are preferred, GSA may place orders in any format permissible under the Contractor's Schedule contract. GSA will place orders based on the individual requirements of the client. In the event that other direct costs are identified for a specific order, the regulation and limitations at FAR 8.402(f) apply. Work will primarily be accomplished at Wright-Patterson Air Force Base, Ohio. Additional Temporary Duty (TDY) locations may be assigned as necessary. Any and all work performed off-site at the contractor's site shall be authorized by the Government.

5. Quote Incorporated By Reference

(b) (4)

6. Estimated Ceiling and Government's Obligation

The total estimated dollar value for the combined total of all task orders issued from all BPAs is \$997,000,000. The Government is obligated only to the extent of authorized purchases actually made under this agreement on individual BPA Orders.

7. Pricing

Orders awarded under this BPA shall be based on labor categories and rates set forth in the BPA Schedule of Prices (BPA Attachment 2). The contractor shall be encouraged to offer additional quantity discounts in BPA Order proposals commensurate with the size of the order. In no case shall proposed BPA Order rates exceed those established in this BPA. Any purchase of services made pursuant to this agreement will be based on written quotations submitted in response to (1) a Request for Quotations, (2) ITSS Requests for Quote, or (3) an oral request made by telephone or in person by an authorized Government representative at the time the Government's need for the item(s) or services arises. The Contractor agrees that the prices quoted to the Government will be as low, or lower than, those charged to the Suppliers most favored customer for comparable quantities under similar terms and conditions, in addition to any discounts for prompt payment.

Prices in this BPA shall be equivalent to or less than those offered by the Contractor on its PSS contract*.

If lower prices are subsequently negotiated on the Contractors PSS contract or subsequent follow-on contract, the Contractor agrees to a reduction in the prices stated in this BPA to make them equal to or lower than the newly negotiated PSS contract prices. This stipulation is necessary because the government cannot place orders using prices that are higher than those in the Federal Supply Schedule contract upon which this BPA is based. No upward adjustment in BPA prices will be authorized, paid, or reimbursed if higher prices are subsequently negotiated on the Contractors PSS contract or follow-on contract.

*NOTE: However, nominal cost-of-living price increases (consistent with those found in the Contractors current PSS contract), included in the Contractors original BPA quote will be honored for periods of performance included in this BPA that extend beyond the term of the Contractors current Federal Supply Schedule contract.

8. Ordering Procedures

Ordering Procedures – Individual Order Requests for Quotes (TO RFQs) will be issued to all MEGASTAR BPA holders for specific requirements as the need arises, unless adequate documentation substantiating exclusion from fair opportunity is provided. TO RFQs will be issued in ITSS. Each TO RFQ will include a customized PWS and projected Labor Categories, rates and hours estimated. Using this PWS, the schedule contractor and Government will attempt to negotiate Firm Fixed Price for the PWS to include deliverables, milestones and payment schedule. If the TO requirement cannot be defined and/or amiably negotiated, the Government reserves the right to place the order as a Time and Materials (T&M) order, providing all official approvals are documented. Within 7 calendar days of TO RFQ release, BPA holders shall notify the CO as to whether or not they intend to submit a quote. BPA holders shall upload their quotes for each order into ITSS by the due date. The Government will review the quotes and may require further negotiation. All orders will be issued in writing via ITSS. Any properly warranted GSA Region 5 Contracting Officer may place orders under this BPA.

9. Exceptions to Fair Opportunity

Issuing a RFQ to one BPA holder may be more appropriate for some services rather than a competitive RFQ issued to all BPA holders. If justified and approved, the limited sources justification will be prepared IAW FAR 8.405-6 and provided to the other BPA holder(s).

10. Order Level Materials (OLM) and Other Direct Costs (ODCs)

TOs with material requirements will include an OLM not-to-exceed line item with a T&M pricing arrangement. When acquiring OLMs over the simplified acquisition threshold, unless the BPA holder has an approved purchasing system per FAR 44.3, the BPA holder will obtain a minimum of three quotes to support the reasonableness of the price of that item. If three quotes cannot be obtained, the BPA holder will document the reason. Prior to purchase of an OLM, the CO will make an independent determination that the prices for proposed OLMs are fair and reasonable. The CO may request documentation concerning any quotes obtained by the BPA holder to assist in this determination. OLMs cannot exceed 33.33% of the total cost of the order.

If a BPA holder's schedule contract does not have OLM authority, the BPA holder must:

- Accept the Commercial Supplier Agreement (CSA) mass modification that adds GSAR clause 552.212-4 Contract Terms and Conditions Commercial Items (JAN 2017) (DEVIATION - FEB 2018) (ALTERNATE I - JAN 2017) (DEVIATION - FEB 2007) to the contract.
- Accept the OLM mass modification that adds the Order-Level Materials SIN and GSAR clause 552.238-82 Special Ordering Procedures for the Acquisition of Order-Level Materials to the contract. By accepting the OLM mass modification, the Order-Level Materials SIN and GSAR

clause 552.238-82 will automatically be added to the contractor's existing contract and applicable GSA eTools, such as GSA eLibrary. Contractors may begin to propose OLMs in response to customer requirements following acceptance of the OLM mass modification.

TOs with material requirements that cannot be met via OLMs (e.g. in the case of non-commercial materials) will include an ODC not-to-exceed line item with a cost reimbursable pricing arrangement. When acquiring ODCs over the simplified acquisition threshold, unless the BPA holder has an approved purchasing system per FAR 44.3, the BPA holder will obtain a minimum of three quotes to support the reasonableness of the price of that item and provide the quotes to the CO. If three quotes cannot be obtained, the BPA holder will document the reason and provide this to the CO. The BPA holder will request CO approval of the ODC prior to incurring any cost.

11. Disputes

Disputes - In order to maintain its business relationships with industry and avoid costly litigation, GSA/NASIC is committed to promoting the use of Alternate Dispute Resolution (ADR) techniques, especially mediation. ADR is a voluntary process whereby a neutral third party assists the parties in resolving a dispute. NASIC invites vendors to participate in using their best efforts to resolve any pre-award or post award dispute that may arise from this request to establish a BPA, and any subsequent award, without litigation. If unassisted negotiations are unsuccessful, the parties agree to use ADR techniques in an attempt to resolve disputes. Likewise, the parties agree that formal protest procedures or litigation will only be considered as a last resort, such as when ADR is unsuccessful or when ADR has been documented to be inappropriate for resolving the dispute. If the ADR is not successful, the parties retain their existing rights.

12. Contract Clauses

The following clauses apply to this BPA and are incorporated by reference into all Orders placed against this BPA:

FAR 52.204-25, PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019) (FAR CASE 2018-17 Interim Rule)

FAR 52.232-33, Payment by Electronic Funds Transfer – System for Award Management (Jul 2013)

DFARS 252.201-7000, Contracting Officer's Representative (Dec 1991)

DFARS 252.203-7000, Requirements Relating to Compensation of Former DoD Officials (Sep 2011)

DFARS 252.203-7001, Prohibition on Persons Convicted of Fraud or Other Defense-Contract-Related Felonies (Dec 2008)

DFARS 252.203-7002, Requirement to Inform Employees of Whistleblower Rights (Sep 2013)

DFARS 252.203-7003, Agency Office of the Inspector General (Dec 2012)

DFARS 252.203-7004, Display of Hotline Posters (Oct 2016)

DFARS 252.204-7000, Disclosure of Information (Oct 2016)

DFARS 252.204-7002, Payment for Subline Items Not Separately Priced (Dec 1991)

DFARS 252.204-7003, Control of Government Personnel Work Product (Apr 1992)

DFARS 252.204-7005, Oral Attestation of Security Responsibilities (Nov 2001)

DFARS 252.204-7009, Limitations on the Use and Disclosure of Third-Party Contractor Reported Cyber Incident Information (Oct 2016)

DFARS 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (Oct 2016)

DFARS 252.204-7015, Disclosure of Information to Litigation Support Contractors (May 2015)

DFARS 252.205-7000, Provision of Information to Cooperative Agreement Holders (Dec 1991)

DFARS 252.209-7004, Subcontracting with Firms that are Owned or Controlled by the Government of a Country that is a State Sponsor of Terrorism (Oct 2015)

DFARS 252.211-7007, Reporting of Government-Furnished Property (Aug 2012)
DFARS 252.223-7006, Prohibition on Storage and Disposal of Toxic and Hazardous Materials (Sept 2014)
DFARS 252.223-7008, Prohibition of Hexavalent Chromium (Jun 2013)
DFARS 252.225-7012, Preference for Certain Domestic Commodities (Dec 2017)
DFARS 252.225-7031, Secondary Arab Boycott of Israel (Jun 2005)
DFARS 252.225-7048, Export Controlled Items (Jun 2013)
DFARS 252.226-7001, Utilization of Indian Organizations, Indian-Owned Economic Enterprises and Native Hawaiian Small Business Concerns (Sep 2004)
DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports (June 2012)
DFARS 252.232-7010, Levies on Contract Payments (Dec 2006)
DFARS 252.237-7010, Prohibition on Interrogation of Detainees by Contractor Personnel (Jun 2013)
DFARS 252.237-7023, Continuation of Essential Contractor Services (Oct 2010)
DFARS 252.239-7000, Protection Against Compromising Emanations (Jun 2004)
DFARS 252.239-7001, Information Assurance Contractor Training and Certification (Jan 2008)
DFARS 252.239-7010, Cloud Computing Services (Oct 2016)
DFARS 252.241-7001, Government Access (Dec 1991)
DFARS 252.243-7001, Pricing of Contract Modifications (Dec 1991)
DFARS 252.243-7002, Requests for Equitable Adjustment (Dec 2012)
DFARS 252.244-7000, Subcontracts for Commercial Items (Jun 2013)
DFARS 252.245-7001, Tagging, Labeling, and Marking of Government-Furnished Property (Apr 2012)
DFARS 252.245-7002, Reporting Loss of Government Property (Dec 2017)
DFARS 252.245-7003, Contractor Property Management System Administration (Apr 2012)
DFARS 252.245-7004, Reporting, Reutilization, and Disposal (Dec 2017)
DFARS 252.246-7000, Material Inspection and Receiving Report (Mar 2008)
DFARS 252.247-7023, Transportation of Supplies by Sea – Basic (Apr 2014)

The following clauses apply to this BPA and are incorporated by full text into all Orders placed against this BPA:

FAR 52.217-9, Option to Extend the Term of the Contract (Mar 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor prior to expiration of the contract; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 30 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 120 months.

FAR 52.252-2 Clauses Incorporated by Reference (Feb 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <https://www.acquisition.gov>.

GSA Special Clause – Payment Instructions

THE FOLLOWING PROCEDURES MUST BE FOLLOWED TO ENSURE TIMELY PAYMENT:

The contractor shall provide a monthly invoice to be submitted simultaneously with the monthly status report no later than the 10th work day of the month following the monthly reporting period. The monthly reporting period shall be based on the calendar month. The contractor invoice shall have separate line items for monthly labor and travel (if utilized).

The contractor shall submit the invoices and supporting documents, through ITSS simultaneously with the monthly status report (as an acceptance item) to allow the client and the Contracting Officer Representative (COR) to electronically accept and certify services received by the client representative. The contractor is authorized to invoice only for the services and travel ordered by GSA and provided in direct support of the client's project requirements. For technical questions regarding ITSS, please contact the ITSS Help Desk at 1-877-243-2889. For issues concerning payments contact GSA Ft. Worth at 1-817-978-2408.

13. Terms and Conditions

The terms and conditions included in this agreement apply to all purchases made pursuant to this agreement. In the event of an inconsistency between the provisions of this agreement and the supplier's invoice, the provisions of this agreement will take precedence.

14. Attachments

(b) (4)

15. Agreement of the Parties

The Contractor hereby submits for Government acceptance this agreement, including its terms, conditions, and clauses, by signing and returning a copy with the quote for acceptance by the Government.

(b) (6)

06 SEP 19

SIGNATURE

DATE:

AT&T Government Solutions
3033 Chain Bridge Road
Oakton, VA 22124

CTA Members: AT&T (GS-00F-350CA), Ball Aerospace (47QTCA19D001P), Brilligent (47QRAA18D0062), Macaulay-Brown (GS-00F-063CA), Prescient Edge (47QRAA18D00CU)

Government Acceptance:

(b) (6)

EVAN W. PORT
Contracting Officer



IT-Solutions Shop

You are signed in as GSI Contracts

IT-Solutions

CPRM

[Guide Me](#) • [Site Help](#) • [Contact Us](#) • [Need Assistance](#) • [Log Out](#)

[WELCOME](#) [ORDERS](#) [MY PROFILE](#)

Form 30

[Print](#)

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[Go To OrderPackag](#)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1 OF 1 PAGE(S)

2. AMENDMENT/MODIFICATION NO.
ID05190006006 / P00001

3. EFFECTIVE DATE
01/23/2020

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

6. ISSUED BY
GSA Region 5
Gail S Nyikon
2600 Paramount Pl
FAIRBORN, OH 45324-6763
United States
(937) 900-8208

7. ADMINISTERED BY (If other than Item 6)
Gail S Nyikon (937) 900-8208

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
GSI Contracts
AT&T GOVERNMENT SOLUTIONS, INC.
3033 Chain Bridge Road
Oakton, VA 22124
United States
703-506-5761

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.
GS00F350CA / 47QFLA19A0011
TYPE OF MODIFICATION:
B. Administrative Change (No Funding or POP Date Changes)

CODE

FACILITY CODE

10B. DATED (SEE ITEM 11)
09/04/2019 12:00 AM

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
CITATION CODE(S) #
R05FY2019IDV-AA20

13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

☐ THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

☐ THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

☒ THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
52.212-4

☐ OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor IS required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract matter where feasible.)

ORDER MOD DATED: 10/21/2019

Proposal Dated: 10/21/2019

Order ID: ID05190006006

PERFORMANCE PERIOD FROM:

PERFORMANCE PERIOD TO:

Desired Delivery Date:

10/01/2019

09/30/2024

ITEM NO	TASK ITEM DESCRIPTION	PREVIOUS MOD AMOUNT	MOD CHANGE AMOUNT	NEW MOD AMOUNT
T0001	BPA Base 5-Year Ordering Period		(b) (4)	

Project Title: MEGASTAR
Task Order Solicitation Number: ID05190006006
NASIC PWS #: Intelligence Support (MEGASTAR)
Contract Type: Combination
Funding Reference: N/A
Requiring Activity: National Air and Space Intelligence Center
Contractor: AT&T Government Solutions
Federal Supply Schedule: PSS 00CORP, (SIN C871 Engineering and Technical Services)
Blanket Purchase Agreement Number: ID05190006006, 47QFLA19A0011
BPA Date: 4 September 2019
BPA Title: Intelligence Support II (MEGASTAR)
NAICS Code: 541330 - Engineering Services
Product Service Code: R425 - Engineering and Technical Services
Inherently Governmental Functions Code: IGF::OT::IGF for Other Functions
Procurement Authority: The Property Act 40 USC Sec. 501-506

The purpose of this modification is to update the Blanket Purchase Agreement (BPA) and Performance Work Statement (PWS).

1. BPA

BPA paragraph 8 is changed to the below language:

8. Ordering Procedures
Ordering Procedures - Individual Order Requests for Quotes (TO RFQs) will be issued to all MEGASTAR BPA holders for specific requirements as the need arises, unless adequate documentation substantiating exclusion from fair opportunity is provided. TO RFQs will be issued in ITSS. Each TO RFQ will include a customized PWS and projected Labor Categories, rates and hours estimated. Using this PWS, the schedule contractor and Government will attempt to negotiate Firm Fixed Price for the PWS to include deliverables, milestones and payment schedule. If the TO requirement cannot be defined and/or amiably negotiated, the Government reserves the right to place the order as a Time and Materials (T&M) order, providing all official approvals are documented. Within 13 calendar days of TO RFQ release, BPA holders shall notify the CO as to whether or not they intend to submit a quote. BPA holders shall upload their quotes for each order into ITSS by the due date. The Government will review the quotes and may require further negotiation. All orders will be issued in writing via ITSS. Any properly warranted GSA Region 5 Contracting Officer may place orders under this BPA.

2. BPA PWS REVISION

BPA PWS Revision 1 dated 7 October 2019 is officially incorporated into the main BPA. See Attached PWS Revision 1.

End of Modification Text

***Attention Contractors: The invoice submission functionality within the system is changing to converge and normalize invoice submission across ASSIST. The invoice submission process detailed at the following link supersedes any instructions for interfacing with the system(s) currently in the contract. These revised instructions do not change the frequency, content, supporting documentation requirements, or any other terms and conditions for invoice submission: [Invoice Submission Instructions](#)

Upon deployment of the Central Invoice Service, the contractor shall submit invoices electronically by logging into the ASSIST portal (<https://portal.fas.gsa.gov>), navigating to the appropriate order, and creating the invoice for that order. Upon deployment of the Central Invoice Service, the contractor shall NOT submit any invoices directly to the GSA Finance Center (neither by mail nor via electronic submission).

For additional assistance contact the ASSIST Helpdesk at 877-472-4877. ***

FOR INQUIRIES REGARDING PAYMENT CONTACT:
GSA Finance Customer Support 816-926-7287

PRIOR AMOUNT	NEW AMOUNT	INCREASE/DECREASE
Cost To GSA:	(b) (4)	

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) GSI Contracts	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Gail S Nyikon (937) 900-8208
15B. CONTRACTOR/OFFEROR (b) (6)	15C. DATE SIGNED 01/24/2020
16B. UNITED STATES OF AMERICA (b) (6)	16C. DATE SIGNED 01/28/2020
(Signature of person authorized to sign)	(Signature of person authorized to sign)

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA FAR (48 CFR) 53.243

Edit History

This is a U.S. General Services Administration Federal government computer system that is "For Official Use Only".
[Privacy Statement](#)

NASIC IDIQ - MEGASTAR

Period of Performance: 10/01/2019 through 09/30/2029

USE AND DISCLOSURE OF DATA

The Offeror has carefully reviewed all data included in this proposal with regard to its potential release in response to the Freedom of Information Act requests. Those data which are believed to be exempt from mandatory disclosure under Exemption 4 of the Freedom of Information Act (5 U.S.C. 552(b)(4)) are contained on the pages enumerated in the NOTICE set forth below. Release of those data, which are considered trade secrets, would provide competitors with valuable insights into the Offeror's operations and as a result would cause the Offeror to suffer substantial competitive harm. Such data is also protected from disclosure under The Trade Secrets Act, 18 U.S.C. 1905.

NOTICE

Data included in this response shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate this response. However, if a contract is awarded to AT&T as a result of, or in connection with the submission of these data, the Government shall have the right to duplicate, use or disclose the data to the extent provided in the contract. This restriction does not limit the Government's right to use information contained in the response if it is obtainable from another source without restriction. The data subject to this restriction are contained in all pages of AT&T's response bearing the "Use and disclosure" legend.



NASIC IDIQ - MEGASTAR

Period of Performance: 10/01/2019 through 09/30/2029

AT&T MEGASTAR PRICING - GOVT SITE

<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
1. Engineering Director - Govt Site														
2. Engineering Program Manager - Govt Site														
3. Engineering Project Manager - Govt Site														
4. Senior Engineer - Govt Site														
5. Engineer - Govt Site														
6. Junior Engineer - Govt Site														
7. Senior Program Manager - Govt Site														
8. Program Manager - Govt Site														
9. Junior Program Manager - Govt Site														
10. Senior Project Manager - Govt Site														
11. Project Manager - Govt Site														
12. Junior Project Manager - Govt Site														
13. Senior Scientist - Govt Site														
14. Scientist - Govt Site														
15. Junior Scientist - Govt Site														
16. Senior Physicist - Govt Site														
17. Physicist - Govt Site														
18. Junior Physicist - Govt Site														
19. RESERVED - Gov't Site														
20. Consultant - Govt Site														
21. Junior Consultant - Govt Site														
22. Senior Management Analyst - Govt Site														
23. Management Analyst - Govt Site														
24. Junior Management Analyst - Govt Site														
25. Senior Financial Analyst - Govt Site														
26. Financial Analyst - Govt Site														
27. Junior Financial Analyst - Govt Site														
28. Senior Logistician - Govt Site														
29. Logistician - Govt Site														
30. Junior Logistician - Govt Site														
31. Senior Subject Matter Expert - Govt Site														
32. Subject Matter Expert - Govt Site														
33. Junior Subject Matter Expert - Govt Site														
34. Senior Configuration Management Specialist - Govt Site														
35. Configuration Management Specialist - Govt Site														
36. Junior Configuration Management Specialist - Govt Site														
37. Senior Technical Specialist - Govt Site														
38. Technical Specialist - Govt Site														
39. Junior Technical Specialist - Govt Site														
40. Senior Technician - Govt Site														
41. Technician - Govt Site														
42. Junior Technician - Govt Site														
43. Senior Technical Writer - Govt Site														
44. Technical Writer - Govt Site														

45. Junior Technical Writer - Govt Site															
46. Sr. Technical Administrative Support - Govt Site															
47. Technical Administrative Support - Govt Site															
48. Jr. Technical Administrative Support - Govt Site															
49. Senior Quality Assurance Analyst - Govt Site															
50. Quality Assurance Analyst - Govt Site															
51. Junior Quality Assurance Analyst - Govt Site															
52. RESERVED - Govt Site															
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56. RESERVED - Govt Site															
57. RESERVED - Govt Site															
58. Senior Information Security Specialist - Govt Site															
59. Information Security Specialist - Govt Site															
60. Junior Information Security Specialist - Govt Site															
61. Senior Security/Information Protection Support Specialist - Govt Site															
62. Security/Information Protection Support Specialist - Govt Site															
63. Junior Security/Information Protection Support Specialist - Govt Site															
64. Program Manager-1 - Govt Site															
65. Program Manager-2 - Govt Site															
66. Program Manager-3 - Govt Site															
67. Program Manager-4 - Govt Site															
68. Program Manager-5 - Govt Site															
69. Project Manager-1 - Govt Site															
70. Project Manager-2 - Govt Site															
71. Project Manager-3 - Govt Site															
72. Project Manager-4 - Govt Site															
73. Project Manager-5 - Govt Site															
74. Principal Engineer/Scientist/Analyst-1 - Govt Site															
75. Principal Engineer/Scientist/Analyst-2 - Govt Site															
76. Principal Engineer/Scientist/Analyst-3 - Govt Site															
77. Principal Engineer/Scientist/Analyst-4 - Govt Site															
78. Principle Engineer/Scientist/Analyst-5 - Govt Site															
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82. Senior Engineer/Scientist/Analyst-4 - Govt Site															
83. Senior Engineer/Scientist/Analyst-5 - Govt Site															
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85. Engineer/Scientist/Analyst-2 - Govt Site															
86. Engineer/Scientist/Analyst-3 - Govt Site															
87. Engineer/Scientist/Analyst-4 - Govt Site															
88. Engineer/Scientist/Analyst-5 - Govt Site															
89. Junior Engineer/Scientist/Analyst-1 - Govt Site															
90. Junior Engineer/Scientist/Analyst-2 - Govt Site															
91. Junior Engineer/Scientist/Analyst-3 - Govt Site															
92. Junior Engineer/Scientist/Analyst-4 - Govt Site															
93. Junior Engineer/Scientist/Analyst-5 - Govt Site															
94. Technician-1 - Govt Site															
95. Technician-2 - Govt Site															
96. Technician-3 - Govt Site															
97. Technician-4 - Govt Site															
98. Technician-5 - Govt Site															
99. Technical Specialist-1 - Govt Site															
100. Technical Specialist-2 - Govt Site															
101. Technical Specialist-3 - Govt Site															
102. Technical Specialist-4 - Govt Site															

103. Technical Specialist-5 - Govt Site															
104. Administrative Support-1 - Govt Site															
105. Administrative Support-2 - Govt Site															
106. Administrative Support-3 - Govt Site															
107. Administrative Support-4 - Govt Site															
108. Administrative Support-5 - Govt Site															
109. Business Specialist-1 - Govt Site															
110. Business Specialist-2 - Govt Site															
111. Business Specialist-3 - Govt Site															
112. Business Specialist-4 - Govt Site															
113. Business Specialist-5 - Govt Site															
114. Emerging Technologies -Jr Specialist - Govt Site															
115. Emerging Technologies Specialist - Govt Site															
116. Emerging Technologies -SME - Govt Site															
117. Cyber Security -Jr Specialist - Govt Site															
118. Cyber Security Specialist - Govt Site															
119. Cyber Security -Sr Specialist - Govt Site															



NASIC IDIQ - MEGASTAR

Period of Performance: 10/01/2019 through 09/30/2029

AT&T MEGASTAR PRICING - CONTRACTOR SITE

<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
1. Engineering Director - ATT Site														
2. Engineering Program Manager - ATT Site														
3. Engineering Project Manager - ATT Site														
4. Senior Engineer - ATT Site														
5. Engineer - ATT Site														
6. Junior Engineer - ATT Site														
7. Senior Program Manager - ATT Site														
8. Program Manager - ATT Site														
9. Junior Program Manager - ATT Site														
10. Senior Project Manager - ATT Site														
11. Project Manager - ATT Site														
12. Junior Project Manager - ATT Site														
13. Senior Scientist - ATT Site														
14. Scientist - ATT Site														
15. Junior Scientist - ATT Site														
16. Senior Physicist - ATT Site														
17. Physicist - ATT Site														
18. Junior Physicist - ATT Site														
19. RESERVED - Gov't Site														
20. Consultant - ATT Site														
21. Junior Consultant - ATT Site														
22. Senior Management Analyst - ATT Site														
23. Management Analyst - ATT Site														
24. Junior Management Analyst - ATT Site														
25. Senior Financial Analyst - ATT Site														
26. Financial Analyst - ATT Site														
27. Junior Financial Analyst - ATT Site														
28. Senior Logistician - ATT Site														
29. Logistician - ATT Site														
30. Junior Logistician - ATT Site														
31. Senior Subject Matter Expert - ATT Site														
32. Subject Matter Expert - ATT Site														
33. Junior Subject Matter Expert - ATT Site														
34. Senior Configuration Management Specialist - ATT Site														
35. Configuration Management Specialist - ATT Site														
36. Junior Configuration Management Specialist - ATT Site														
37. Senior Technical Specialist - ATT Site														
38. Technical Specialist - ATT Site														
39. Junior Technical Specialist - ATT Site														
40. Senior Technician - ATT Site														
41. Technician - ATT Site														
42. Junior Technician - ATT Site														
43. Senior Technical Writer - ATT Site														
44. Technical Writer - ATT Site														

45. Junior Technical Writer - ATT Site															
46. Sr. Technical Administrative Support - ATT Site															
47. Technical Administrative Support - ATT Site															
48. Jr. Technical Administrative Support - ATT Site															
49. Senior Quality Assurance Analyst - ATT Site															
50. Quality Assurance Analyst - ATT Site															
51. Junior Quality Assurance Analyst - ATT Site															
52. RESERVED - ATT Site															
53. RESERVED - ATT Site															
54. RESERVED - ATT Site															
55. RESERVED - ATT Site															
56. RESERVED - ATT Site															
57. RESERVED - ATT Site															
58. Senior Information Security Specialist - ATT Site															
59. Information Security Specialist - ATT Site															
60. Junior Information Security Specialist - ATT Site															
61. Senior Security/Information Protection Support Specialist - ATT Site															
62. Security/Information Protection Support Specialist - ATT Site															
63. Junior Security/Information Protection Support Specialist - ATT Site															
64. Program Manager-1 - ATT Site															
65. Program Manager-2 - ATT Site															
66. Program Manager-3 - ATT Site															
67. Program Manager-4 - ATT Site															
68. Program Manager-5 - ATT Site															
69. Project Manager-1 - ATT Site															
70. Project Manager-2 - ATT Site															
71. Project Manager-3 - ATT Site															
72. Project Manager-4 - ATT Site															
73. Project Manager-5 - ATT Site															
74. Principal Engineer/Scientist/Analyst-1 - ATT Site															
75. Principal Engineer/Scientist/Analyst-2 - ATT Site															
76. Principal Engineer/Scientist/Analyst-3 - ATT Site															
77. Principal Engineer/Scientist/Analyst-4 - ATT Site															
78. Principle Engineer/Scientist/Analyst-5 - ATT Site															
79. Senior Engineer/Scientist/Analyst-1 - ATT Site															
80. Senior Engineer/Scientist/Analyst-2 - ATT Site															
81. Senior Engineer/Scientist/Analyst-3 - ATT Site															
82. Senior Engineer/Scientist/Analyst-4 - ATT Site															
83. Senior Engineer/Scientist/Analyst-5 - ATT Site															
84. Engineer/Scientist/Analyst-1 - ATT Site															
85. Engineer/Scientist/Analyst-2 - ATT Site															
86. Engineer/Scientist/Analyst-3 - ATT Site															
87. Engineer/Scientist/Analyst-4 - ATT Site															
88. Engineer/Scientist/Analyst-5 - ATT Site															
89. Junior Engineer/Scientist/Analyst-1 - ATT Site															
90. Junior Engineer/Scientist/Analyst-2 - ATT Site															
91. Junior Engineer/Scientist/Analyst-3 - ATT Site															
92. Junior Engineer/Scientist/Analyst-4 - ATT Site															
93. Junior Engineer/Scientist/Analyst-5 - ATT Site															
94. Technician-1 - ATT Site															
95. Technician-2 - ATT Site															
96. Technician-3 - ATT Site															
97. Technician-4 - ATT Site															
98. Technician-5 - ATT Site															
99. Technical Specialist-1 - ATT Site															
100. Technical Specialist-2 - ATT Site															
101. Technical Specialist-3 - ATT Site															
102. Technical Specialist-4 - ATT Site															

103. Technical Specialist-5 - ATT Site														
104. Administrative Support-1 - ATT Site														
105. Administrative Support-2 - ATT Site														
106. Administrative Support-3 - ATT Site														
107. Administrative Support-4 - ATT Site														
108. Administrative Support-5 - ATT Site														
109. Business Specialist-1 - ATT Site														
110. Business Specialist-2 - ATT Site														
111. Business Specialist-3 - ATT Site														
112. Business Specialist-4 - ATT Site														
113. Business Specialist-5 - ATT Site														
114. Emerging Technologies -Jr Specialist - ATT Site														
115. Emerging Technologies Specialist - ATT Site														
116. Emerging Technologies -SME - ATT Site														
117. Cyber Security -Jr Specialist - ATT Site														
118. Cyber Security Specialist - ATT Site														
119. Cyber Security -Sr Specialist - ATT Site														

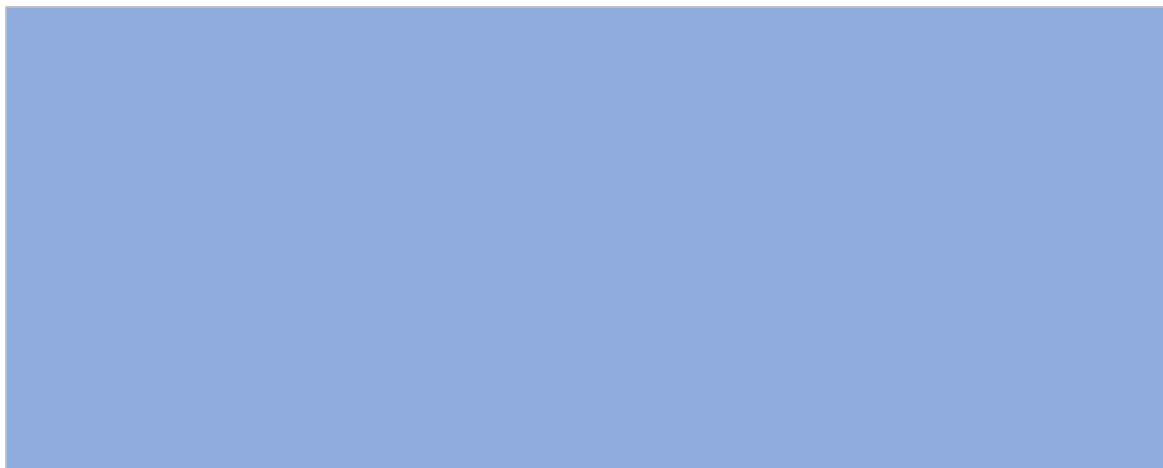
Ball Aerospace MEGASTAR PRICING - GOVT SITE

IT Schedule 70 Items and Prices														
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
EO Engineer, Jr														
EO Engineer, Mid														
EO Engineer, Sr														
EO Engineer, Principal														
EO Intelligence Analyst, Jr														
EO Intelligence Analyst, Mid														
EO Intelligence Analyst, Sr														
EO Program Manager, Mid														
EO Project Manager, Mid														
EO Security Specialist, Mid														
EO Staff Consultant, Mid														
EO Staff Consultant, Sr														
EO Technical Trainer, Mid														
EO Technical Trainer, Sr														
IT Engineer, Mid														
IT Engineer, Sr														
IT Engineer, Principal														
IT Intelligence Analyst, Jr														
IT Intelligence Analyst, Mid														
IT Intelligence Analyst, Sr														
IT Program Manager, Mid														
IT Project Control Specialist, Mid														
IT Project Control Specialist, Sr														
IT Project Manager, Mid														
IT Security Specialist, Mid														
IT Staff Consultant, Mid														
IT Staff Consultant, Sr														
IT Systems Administrator, Mid														
IT Systems Administrator, Sr														
IT Technical Trainer, Mid														
IT Technical Trainer, Sr														
Administrative, Mid														
Administrative, Sr														

Ball Aerospace MEGASTAR PRICING - CONTRACTOR SITE															
IT Schedule 70 Items and Prices															
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>	
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>	
EO Engineer, Jr															
EO Engineer, Mid															
EO Engineer, Sr															
EO Engineer, Principal															
EO Intelligence Analyst, Jr															
EO Intelligence Analyst, Mid															
EO Intelligence Analyst, Sr															
EO Program Manager, Mid															
EO Project Manager, Mid															
EO Security Specialist, Mid															
EO Staff Consultant, Mid															
EO Staff Consultant, Sr															
EO Technical Trainer, Mid															
EO Technical Trainer, Sr															
IT Engineer, Mid															
IT Engineer, Sr															
IT Engineer, Principal															
IT Intelligence Analyst, Jr															
IT Intelligence Analyst, Mid															
IT Intelligence Analyst, Sr															
IT Program Manager, Mid															
IT Project Control Specialist, Mid															
IT Project Control Specialist, Sr															
IT Project Manager, Mid															
IT Security Specialist, Mid															
IT Staff Consultant, Mid															
IT Staff Consultant, Sr															
IT Systems Administrator, Mid															
IT Systems Administrator, Sr															
IT Technical Trainer, Mid															
IT Technical Trainer, Sr															
Administrative, Mid															
Administrative, Sr															

Brilligent Solutions, Inc. MEGASTAR Rates Government & Contractor Site																
PSS Schedule of Items and Prices																
<i>FSS SIN</i>	<i>Labor Category</i>	<i>2019 Rate</i>	<i>Discount</i>	<i>Discount</i>	<i>Discounted</i>		<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>	<i>Year 5</i>	<i>Year 6</i>	<i>Year 7</i>	<i>Year 8</i>	<i>Year 9</i>	<i>Year 10</i>
		<i>Base Rate</i>	<i>Percentage</i>	<i>Amount</i>	<i>Rate</i>		<i>2019-2020</i>	<i>2020-2021</i>	<i>2021-2022</i>	<i>2022-2023</i>	<i>2023-2024</i>	<i>2024-2025</i>	<i>2025-2026</i>	<i>2026-2027</i>	<i>2027-2028</i>	<i>2028-2029</i>
871-1, 871-2, 871-3, 871-4	1. Project Manager 5															
871-1, 871-2, 871-3, 871-4	2. Project Manager 4															
871-1, 871-2, 871-3, 871-4	3. Project Manager 3															
871-1, 871-2, 871-3, 871-4	4. Project Manager 2															
871-1, 871-2, 871-3, 871-4	5. Project Manager 1															
871-1, 871-2, 871-3, 871-4	6. Principal Engineering Scientist															
871-1, 871-2, 871-3, 871-4	7. Chief Engineering Scientist															
871-1, 871-2, 871-3, 871-4	8. Engineering Scientist 4															
871-1, 871-2, 871-3, 871-4	9. Engineering Scientist 3															
871-1, 871-2, 871-3, 871-4	10. Engineering Scientist 2															
871-1, 871-2, 871-3, 871-4	11. Engineering Scientist 1															
871-1, 871-2, 871-3, 871-4	12. Software Engineer 4															
871-1, 871-2, 871-3, 871-4	13. Software Engineer 3															
871-1, 871-2, 871-3, 871-4	14. Software Engineer 2															
871-1, 871-2, 871-3, 871-4	15. Software Engineer 1															
871-1, 871-2, 871-3, 871-4	16. Data Analyst 4															
871-1, 871-2, 871-3, 871-4	17. Data Analyst 3															
871-1, 871-2, 871-3, 871-4	18. Data Analyst 2															
871-1, 871-2, 871-3, 871-4	19. Data Analyst 1															
871-1, 871-2, 871-3, 871-4	20. Engineering Scientist Co-Op															
871-1, 871-2, 871-3, 871-4	21. Technical Writer 2															
871-1, 871-2, 871-3, 871-4	22. Technical Writer 1															
871-1, 871-2, 871-3, 871-4	26. Network Administrator 2															
871-1, 871-2, 871-3, 871-4	27. Network Administrator 1															

Proprietary Informaiton to MacAulay-Brown, Inc., an Alion company





Proprietary Information to MacAuley-Brown, Inc., an Alion company

MacB MEGASTAR PRICING - GOVT SITE

PSS Schedule of Items and Prices															
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>		<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
Apprentice Engineer / Analyst															
Engineer / Analyst 1															
Engineer / Analyst 2															
Engineer / Analyst 3															
Engineer / Analyst 4															
Principal Engineer / Analyst 1															
Principal Engineer / Analyst 2															
Research Associate / Senior Technician															
Senior Admin Support															
Senior Admin Support 2															
Senior Engineer / Analyst 1															
Senior Engineer / Analyst 2															
Senior Engineer / Analyst 3															
Senior Project Manager															
Senior Technician 2															
Senior Technician 3															
Senior Technician 4															
Tech Support Spec 2															
Tech Support Spec 3															

Proprietary Information to MacAuley-Brown, Inc., an Alion company

MacB MEGASTAR PRICING - CONTRACTOR SITE

PSS Schedule of Items and Prices															
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>		<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
Apprentice Engineer / Analyst															
Engineer / Analyst 1															
Engineer / Analyst 2															
Engineer / Analyst 3															
Engineer / Analyst 4															
Principal Engineer / Analyst 1															
Principal Engineer / Analyst 2															
Research Associate / Senior Technician															
Senior Admin Support															
Senior Admin Support 2															
Senior Engineer / Analyst 1															
Senior Engineer / Analyst 2															
Senior Engineer / Analyst 3															
Senior Program Manager															
Senior Project Manager															
Senior Technician 2															
Senior Technician 3															
Senior Technician 4															
Tech Support Spec 2															
Tech Support Spec 3															

Prescient Edge MEGASTAR PRICING - GOVT SITE

PSS Schedule of Items and Prices															
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>		<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>
1. Subject Matter Expert - Govt Site															
2. Program Control Analyst - Govt Site															
3. Sr. Engineer - Govt Site															
4. Jr. Engineer - Govt Site															
5. Software Engineer- Govt Site															
6. Project Manager - Govt Site															
7. Program Manager - Govt Site															

Prescient Edge MEGASTAR PRICING - CONTRACTOR SITE

PSS Schedule of Items and Prices															
<u>Labor Category</u>	<u>2019 Rate</u>	<u>Discount</u>	<u>Discount</u>	<u>Discounted</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>	<u>Year 9</u>	<u>Year 10</u>	
	<u>Base Rate</u>	<u>Percentage</u>	<u>Amount</u>	<u>Rate</u>	<u>2019-2020</u>	<u>2020-2021</u>	<u>2021-2022</u>	<u>2022-2023</u>	<u>2023-2024</u>	<u>2024-2025</u>	<u>2025-2026</u>	<u>2026-2027</u>	<u>2027-2028</u>	<u>2028-2029</u>	
3. Subject Matter Expert - CTR Site															
4. Program Control Analyst - CTR Site															
5. Sr. Engineer - CTR Site															
6. Jr. Engineer - CTR Site															
7. Software Engineer- CTR Site															
6. Project Manager- CTR Site															
7. Program Manager - CTR Site															



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IT-Solutions

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Form 30

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE 1 OF 1 PAGE(S)
2.AMENDMENT/MODIFICATION NO. ID05190006006 / P00002		3.EFFECTIVE DATE 03/18/2020	4.REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)
6. ISSUED BY GSA Region 5 Clifton L Kendrick 1734 Corporate Crossing Suite 2 O FALLON, IL 62269-3734 United States 618-206-5218		7. ADMINISTERED BY (If other than Item 6) Clifton L Kendrick 618-206-5218		
8.NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) GSI Contracts AT&T GOVERNMENT SOLUTIONS, INC. 3033 Chain Bridge Road Oakton, VA 22124 United States 703-506-5761		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. GS00F350CA / 47QFLA19A0011 TYPE OF MODIFICATION: B. Administrative Change (No Funding or POP Date Changes)		
CODE	FACILITY CODE	10B. DATED (SEE ITEM 11) 01/28/2020 12:00 AM		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="radio"/> is extended <input type="radio"/> is not extended.				
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:				
(a) By completing items 8 and 15, and returning _ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12.ACCOUNTING AND APPROPRIATION DATA (If required) CITATION CODE(S) # R05FY2019IDV-AA20				
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
<input type="checkbox"/> THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
<input type="checkbox"/> THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
<input checked="" type="checkbox"/> THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
<input type="checkbox"/> OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor IS required to sign this document and return 1 copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract matter where feasible.)				
ORDER MOD DATED:03/13/2020		Proposal Dated:03/13/2020		Order ID: ID05190006006
PERFORMANCE PERIOD FROM: 10/01/2019		PERFORMANCE PERIOD TO: 09/30/2024		Desired Delivery Date:

ITEM NO	TASK ITEM DESCRIPTION	PREVIOUS MOD AMOUNT	MOD CHANGE AMOUNT	NEW MOD AMOUNT
T0001	BPA Base 5-Year Ordering Period		(b) (4)	

1. THE PURPOSE OF THIS MODIFICATION IS AS FOLLOWS:

Incorporate by reference the revised Performance Work Statement, Revision 2: 07 February 2020 and DD Form 254 signed 16 March 2020 by NASIC Chief of Acquisition Division

2. ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

***Attention Contractors: The invoice submission functionality within the system is changing to converge and normalize invoice submission across ASSIST. The invoice submission process detailed at the following link supersedes any instructions for interfacing with the system(s) currently in the contract. These revised instructions do not change the frequency, content, supporting documentation requirements, or any other terms and conditions for invoice submission: [Invoice Submission Instructions](#)

Upon deployment of the Central Invoice Service, the contractor shall submit invoices electronically by logging into the ASSIST portal (<https://portal.fas.gsa.gov>), navigating to the appropriate order, and creating the invoice for that order. Upon deployment of the Central Invoice Service, the contractor shall NOT submit any invoices directly to the GSA Finance Center (neither by mail nor via electronic submission).

For additional assistance contact the ASSIST Helpdesk at 877-472-4877. ***

FOR INQUIRIES REGARDING PAYMENT CONTACT:
GSA Finance Customer Support 816-926-7287

	PRIOR AMOUNT	NEW AMOUNT	INCREASE/DECREASE
Cost To GSA:	(b) (4)		

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) GSI Contracts		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Clifton L. Kendrick 618-206-5218	
15B. CONTRACTOR/OFFEROR (b) (6) (Signature of person authorized to sign)	15C. DATE SIGNED 06/17/2020	16B. UNITED STATES OF AMERICA (b) (6) (Signature of person authorized to sign)	16C. DATE SIGNED 06/18/2020
NSN 7540-01-152-8070 Previous edition unusable		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

▶ **Edit History**

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Form 30

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1 OF 1 PAGE(S)

2. AMENDMENT/MODIFICATION NO.
ID05190006006 / P00003

3. EFFECTIVE DATE
12/08/2020

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

6. ISSUED BY
GSA Region 5
Clifton L. Kendrick
1734 Corporate Crossing Suite 2
O FALLON, IL 62269-3734
United States
618-206-5218

7. ADMINISTERED BY (If other than Item 6)
Clifton L. Kendrick 618-206-5218

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

GSI Contracts
AT&T GOVERNMENT SOLUTIONS, INC.
3033 Chain Bridge Road
Oakton, VA 22124
United States
703-506-5761

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

GS00F350CA / 47QFLA19A0011

TYPE OF MODIFICATION:

B. Administrative Change (No Funding or POP Date Changes)

CODE

FACILITY CODE

10B. DATED (SEE ITEM 11)

06/18/2020 12 00 AM

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers
☐ is extended ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

CITATION CODE(S) #
R05FY2019IDV-AA20

13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- ☐ THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify Authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- ☐ THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
- ☐ THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

☒ **OTHER (Specify type of modification and authority)**
FAR Part 52.243-3 Changes-Time-and-Materials or Labor-Hours

E. IMPORTANT: Contractor IS NOT required to sign this document and return 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract matter where feasible.)

ORDER MOD DATED: 12/08/2020

Proposal Dated: 12/08/2020

Order ID: ID05190006006

PERFORMANCE PERIOD FROM:
10/01/2019

PERFORMANCE PERIOD TO:
09/30/2024

Desired Delivery Date:

ITEM NO	TASK ITEM DESCRIPTION	PREVIOUS MOD AMOUNT	MOD CHANGE AMOUNT	NEW MOD AMOUNT
T0001	BPA Base 5-Year Ordering Period		(b) (4)	

1. The purpose of this modification is as follows:

a. Incorporate the following clause in full text:

Federal Procurement Data System (FPDS)

In accordance with the Office of the Defense Policy and Compliance (DPC) Class Deviation 2019-EOOOL, the FPDS reporting for this procurement is waived as it is in support of one of the DoD elements of the Intelligence Community.

b. Incorporate the following clause by reference:

The following clause is Incorporated by references and applicable to all Task Orders awarded under this Blanket Purchase Agreement: FAR 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

2. All other terms and conditions remain the same.

***Attention Contractors: The invoice submission functionality within the system is changing to converge and normalize invoice submission across ASSIST. The invoice submission process detailed at the following link supersedes any instructions for interfacing with the system(s) currently in the contract. These revised instructions do not change the frequency, content, supporting documentation requirements, or any other terms and conditions for invoice submission: [Invoice Submission Instructions](#)

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FOR INQUIRIES REGARDING PAYMENT CONTACT:
GSA Finance Customer Support 816-926-7287

PRIOR AMOUNT		NEW AMOUNT		INCREASE/DECREASE
Cost To GSA:		(b) (4)		
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER(Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Clifton L. Kendrick 618-206-5218		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED	
(Signature of person authorized to sign)		(b) (6) (Signature of person authorized to sign)	12/09/2020	
NSN 7540-01-152-8070 Previous edition unusable		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243		

► **Edit History**

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Performance Work Statement (PWS)

Intelligence Support

National Air and Space Intelligence Center (NASIC) Wright-Patterson Air Force Base, Ohio

Last updated: 22 February 2019

1.0 BACKGROUND

1.1 These requirements are currently satisfied under General Services Administration (GSA) Blanket Purchase Agreements (BPAs): **ID05140109**, GS05Q15BMA0015, Counterspace Analysis Support Program II (CASP II); **ID05140125**, GS05Q15BMA0030, HAVESTAR VII; **ID05150022**, GS05Q15BMA0021, GS05Q15BMA0022, Foreign Air, Space and Technologies IV (FAST IV); **ID05160031**, GS05Q17BMA0005, GS05Q17BMA0006, SIGINT Engineering Support Services III (SESS III.)

2.0 SCOPE OF WORK /OBJECTIVE

2.1 The purpose of these requirements is to perform scientific and technical intelligence analysis supporting NASIC, United States (U.S.) Air Force, Department of Defense (DoD) and National Level intelligence efforts. The mission areas supported under this PWS are: Air; Cyberspace; Space and Counterspace; Ballistic Missiles; Forces, Technologies and Infrastructures; Open Source Intelligence (OSINT); Human Intelligence (HUMINT); Signals Intelligence (SIGINT); Training.

2.2 Work performed will include obtaining data; performing technical analysis; developing assessments, evaluations, and predictions of capabilities; designing and assessing current, developmental and projected threat systems; providing reports related to worldwide developments.

2.3 The analysis and evaluation of capabilities, performance, and vulnerabilities is based upon analysis of all available and relevant intelligence information, "all source" intelligence information, and will be used to support evaluations, assessments and long-range forecasts of foreign developments.

2.4 The number and depth of specialized areas of these analyses require specialists of exceptionally high competence in the areas of military systems, operations, and trained to recognize subtleties in foreign developments which may directly impact current and future military operations and weapons developments.

2.5 These requirements support the creation, evaluation and analysis of intelligence data on foreign developments in current and future weapon systems, subsystems, and technologies impacting Air, Space, Cyberspace, Missiles, Information Operations and other new initiatives.

2.6 These requirements develop and maintain analytic tools, techniques, and knowledge databases consistent with NASIC corporate strategies where applicable which include the Threat Modeling and Analysis Program (TMAP) and the Knowledge Prepositioning System (KPS) used in performing and delivery of detailed analysis of air and space forces, Counterspace, information operations systems, subsystems and associated Command, Control, Communications, Computers (C4).

2.7 These requirements provide a well-rounded team of intelligence professionals capable of meeting the challenges posed by foreign developments, increased analytical technical expertise across all aspects of the NASIC mission, cultivate a collaborative environment across the intelligence and DoD communities, develop and exercise relationships within NASIC and with external organizations to enhance understanding of capabilities, processes, and requirements, and develop and sustain effective Knowledge Management tools and processes.

3.0 APPLICABLE DOCUMENTS

Specifics with regards to requirements information/documentation and guidance (e.g. PWS, QASP, etc.) will be determined and solicited on an individual Task Order (TO) basis.

4.0 PROGRAM/PROJECT MANAGEMENT

4.1 The contractor shall provide a Program Manager to provide total BPA management. For each TO, the contractor shall provide a Project Manager to provide total TO management. The Program Manager shall serve as the primary point of contact to the GSA Contracting Officer (CO) for all technical aspects of the required work.

4.2 If work cannot be accommodated at the Government facility, the contractor shall provide all labor, facilities, and non-Government Furnished Equipment (non-GFE) to successfully complete all requirements. The contractor shall provide the necessary resources to plan, implement, and manage the tasks set forth below either on-site or off-site as required in each individual TO to the extent provided by the available man-hours.

4.3 Project Management Plan (PMP). The contractor shall create and maintain a PMP for each order. The PMP shall describe, as a minimum, the resources necessary to accomplish the PWS. The PMP shall be completed and certified by the contractor, the NASIC/Government Client Representative (CR), and the GSA CO within 30 calendar days after award of TO.

4.4 The contractor shall provide up-to-date status, individually for each TO with an active period of performance, through Monthly Status/Financial Reports. Monthly Status/Financial Reports shall be unclassified and shall include details on the following items for each previous time period: (1) Best up-to-date estimate of hours worked and expected charges, including those of subcontractors; (2) status of work performance; (3) any problems or concerns encountered that may impact cost or schedule; (4) status of open items from previous reports;

(5) any suggested solutions; (6) personnel changes; (7) proposed government actions; (8) a summary chart of the current financial status on all contract line item numbers (CLINs) (labor, other direct costs (ODCs)/travel, material).

4.5 The contractor shall provide up-to-date status, individually for each TO with an active period of performance, through quarterly Program Management Reviews (PMRs). The contractor's Program Manager shall be required to present oral program reviews as requested by the NASIC/Government CR.

4.6 The contractor shall prepare written documentation on the results of tasking to include verbal and written comments, informational memorandums and letters, meeting minutes, specialized technical reports and papers, and final report and studies as defined in individual TOs. Present briefings on government selected studies, models, or analyses associated with task efforts to various intelligence organizations, committees, or panels as defined in the individual TOs by the government. The contractor shall prepare and present the briefings to the government appointed experts prior to the actual presentation, to ensure content accuracy and that security considerations are properly addressed and followed.

4.7 Maintain a complete listing of classified material issued by the government and maintained at the contractor's facility in performance of this contract to include, the title of the material; the origination date; the overall classification; the type of material (i.e. report, electronic media, etc.); the number of copies held; and any other information necessary to identify the inventory. The contractor shall obtain written approval by the NASIC/Government CR prior to the release of any classified material. The contractor shall provide the NASIC/Government CR with a destruction certificate for all classified material that is destroyed.

5.0 REQUIREMENTS

5.1 **Air.** The contractor shall perform scientific and technical analysis in the following areas: Air Systems; Integrated Air Defense Systems (IADS); Air Ordinance and Cruise Missiles; Air and Missile Defense Surveillance Systems. This includes analysis of associated Cyberspace capabilities, dependencies, and vulnerabilities.

5.1.1 **Air Systems.** The contractor shall provide analysis of current and future technical characteristics and capabilities of foreign military and dual-use civilian systems including fighters, bombers, special mission aircraft and unmanned aerial vehicles (UAVs) (to include weapons, platforms, sensors, and countermeasures) in development or operation and the actual lethal effect when employed against U.S. and allied forces.

5.1.1.1 **Air System Analysis.** The contractor shall analyze data from intelligence sources, such as SIGINT, Geospatial Intelligence (GEOINT), Electronic Intelligence (ELINT), Measurement and Signature Intelligence (MASINT), HUMINT, foreign materiel exploitation and open sources to assess the capabilities, performance, vulnerabilities, and anomalous activities of foreign air weapons and associated systems and subsystems.

5.1.1.2 **Integrated Air Defense Systems (IADS).** The contractor shall perform analysis of technical characteristics, capabilities, performance, limitations, combat effectiveness, and

vulnerabilities, of a countries ability to operate its IADS in both peacetime and wartime situations.

5.1.1.2 Air System Sub-System Analysis. The contractor shall analyze subsystem development and use of electronic devises and technologies, including navigation, avionics, communications, flight controls, controls and displays, airborne computers, and their associated interconnecting systems; air-based directed energy weapons, including lasers, radiofrequency, and high-power microwave weapons; identification friend or foe (IFF) systems; radar equipment types such as surveillance, navigation, mission and gun fire control; and related electronic warfare systems.

5.1.1.3 Air System Design Analysis. The contractor shall perform analysis of all static and dynamic characteristics of the weapon system (i.e., detailed external configuration; location and performance of internal avionics, electronics, antennas, and other subsystems; construction techniques and materials; flight control; flying/handling qualities; propulsion systems; armament, etc.).

5.1.1.4 Air System Development Analysis. The contractor shall analyze design, fabrication, and wind tunnel testing of air system and system component models to define the aerodynamics associated with the vehicle over the expected flight regime. The contractor shall evaluate combat capability, reliability, maintainability, and survivability.

5.1.1.5 Air Vehicle Signatures Analysis. The contractor shall collect and analyze, and/or analytically derive, signatures (visible, ultraviolet, infrared (IR), radar, etc.) of foreign air vehicles and associated subsystems.

5.1.1.6 Air System Engagement Analysis. The contractor shall conduct scientific and technical analysis and assessments of foreign military systems capabilities, strengths, vulnerabilities (including Cyberspace, electronic warfare, and information operations), associated technologies, associated Command, Control, Communications, Computers, and Intelligence (C4I) systems, and operations of systems. The contractor shall assess the combat effectiveness of threat aircraft weapon systems. The contractor shall evaluate the aircraft as a completely integrated system combining the airframe, weapons, radars, avionics, electronics, command and control, communications, fire-control and signature information. The contractor shall analyze include man-in-the-loop simulation assessment techniques.

5.1.1.7 Air Weapon Systems - Detailed Characterization. The contractor shall perform in-depth analysis of foreign air weapon subsystem characteristics and performance based on foreign hardware or extensive foreign technical documentation. The contractor shall integrate analysis results into total system capability assessments. The contractor shall analyze and determine the function of air weapon components and subsystems such as avionics, seekers, guidance systems, propulsion systems, signature control systems, materials, etc. The contractor shall assess these components and subsystems both individually and as a part of the overall air weapon system.

5.1.1.8 Air Vehicle Analytic Methodology and Tools. The contractor shall analyze and create aerodynamic vehicle analytic methodologies that shall improve on the techniques

currently used to evaluate technical intelligence data and perform engineering analysis. Methodologies shall emphasize new approaches that provide increased analytical detail and accuracy. The contractor shall evaluate and/or modify current analytical tools and modeling software and develop new analytical tools as required.

5.1.1.9 Air Weapon System Modeling. The contractor shall perform modeling/digital simulation in the area of aerodynamic weapon systems. The contractor Simulation development shall include software development, software verification, data generation, and data verification.

5.1.1.10 Air Vehicle Signatures Models. The contractor shall create, modify and maintain computer code and models used to analyze and derive signatures of foreign air vehicles and associated subsystems.

5.1.1.11 Air System Engagement Models. The contractor shall analyze the combat effectiveness of threat aircraft weapon systems. The contractor shall develop and modify computer code and threat models to reflect system performance characteristics of threat aircraft weapon systems. The contractor shall conduct and document foreign aerodynamic flight simulation analysis to include mission planning, flight profile modeling, attack simulation, and attack scenarios.

5.1.2 Integrated Air Defense Systems (IADS). The contractor shall perform analysis of technical characteristics, capabilities, performance, limitations, combat effectiveness, and vulnerabilities, of a countries ability to operate its IADS in both peacetime and wartime situations.

5.1.2.1 Integrated Air Defense Systems (IADS). The contractor shall assess the operational effectiveness of threat IADS including visualizing a completely integrated system combining aircraft, radar, links and nodes, missiles, tactics, doctrine, battle management, and order of battle.

5.1.2.2 IADS Systems Analysis. The contractor shall include system-of-system analysis of current and future capabilities of foreign threat countries to integrate/coordinate/operate their air defense assets (including air surveillance sensors, command, control, and communications and computers systems, and air defense weapon systems) and assessment of the characteristics, strengths, and limitations/exploitable weaknesses of the entire macro-level foreign IADS as a whole.

5.1.2.3 IADS Modelling and Simulation. The contractor shall perform modeling and simulation software development and verification, database management, and enhanced 3D scene visualization capability (includes development of web-based reach-back to NASIC analysis exploiting the KPS database.)

5.1.3 Air Ordinance and Cruise Missiles. The contractor shall perform analysis of technical characteristics, signatures, capabilities, performance, limitations, combat effectiveness, vulnerabilities, and proliferation of air-to-air and air-to-surface ordinance, air-launched ballistic missiles, cruise missiles (all types including anti-ship, ground-launched ground attack, nuclear and conventional) and any associated electronic devices and technologies.

5.1.3.1 Engineering Analysis. The contractor shall perform engineering analysis on current and projected foreign air-to-surface missiles, cruise missiles (air, ground, and sea launched), UAVs, and unguided munitions addressing engineering designs, performance assessments, guidance and control, avionics, warhead, and fusing.

5.1.4 Air and Missile Defense Surveillance Systems (Ground-based and Airborne Electronic Systems). The contractor shall perform analysis of technical characteristics, signatures, capabilities, performance, limitations, combat effectiveness, vulnerabilities, and proliferation of land-based radar equipment including air defense early warning; SAM-associated radars with a primary function of target acquisition/air surveillance/early warning; ballistic missile early warning/over the horizon, navigation, air traffic control, and ground-controlled and air-controlled intercept radars; materials; data links associated with these systems.

5.1.4.1 System Analysis. The contractor shall provide analysis of current and future foreign ground-based and airborne electronic systems, which include the designs, operational capabilities and limitations, detailed system characteristics, and threat to U.S. systems. The contractor shall provide the expertise to define the design parameters and obtain detailed system performance characteristics on proliferated and developmental foreign electronic systems.

5.1.4.2 Electronic and Directed Energy Systems Analysis. The contractor shall perform research and technical analysis of foreign countries' electronic and electro-optic systems/subsystems, directed energy weapons, fire control systems, integrated avionics systems, airborne and ground-based radar systems, electronic combat systems, and associated databases and models.

5.1.4.3 Electronic Databases. The contractor shall obtain, analyze, catalog, and maintain parametric data which describes foreign threat radar systems.

5.1.4.4 Threat Software Analysis. The contractor shall supplement, enhance, and improve the quality of NASIC's threat analysis. The contractor shall provide specialized engineering/ technical analysis expertise to assist NASIC in its role of analyzing foreign software-driven threat systems.

5.2 Cyberspace. The contractor shall perform scientific and technical analysis in the following areas: actual or potential application of foreign Cyberspace threats to U.S. and allied air and space operations and associated combat support systems, networks, data, and forces including foreign Cyberspace R&D, capabilities, actors, doctrine, tactics, techniques, procedures, strategy, employment (current and future), and dependencies that threaten U.S. and allied air and space operations.

5.2.1 Cyberspace Operations Analysis. The contractor shall assess the characteristics, capabilities, and vulnerabilities of foreign military air, air defense, Counterspace, and space command and control processes, information systems and networks of systems and telecommunications and computer networks whether wired or wireless, ground, air, or space-based; assess how they are used to enable foreign military operations and terrorist activities.

5.2.2 Information Operations Analysis. The contractor shall analyze assess the capabilities and limitations of foreign information operations (IO) activities to help NASIC assess the foreign IO threat to US information and satellite systems operations, and mission.

5.2.3 System Vulnerability Analysis. The contractor shall analyze assess the characteristics, capabilities, and vulnerabilities of foreign weapons, air, space, and Supervisory Control and Data Acquisition (SCADA) systems and networks in addition to analyzing Cyberspace threat to U.S. weapons, air, space, and SCADA systems.

5.2.4 Malicious Software Analysis. The contractor shall analyze assess characteristics, capabilities, and limitations of malicious software as well as of techniques and implants to tamper with computer hardware. The contractor shall design, implement, and maintain modeling, simulation, database, and training tools.

5.3 Space and Counterspace. The contractor shall perform scientific and technical analysis in the following areas: Space and Counterspace Systems; Modeling and Tool Development; Advanced technologies; Anti-Satellite Capability; NAVWAR Assessments. Includes analysis of associated Cyberspace capabilities, dependencies, and vulnerabilities.

5.3.1 Space and Counterspace Systems. The contractor shall analyze technical characteristics, performance, signatures, capabilities, limitations, effectiveness, vulnerabilities (including Cyberspace, electronic warfare, and information operations) and employment of all systems (current and projected military, civil, and scientific systems and support systems), sensors, facilities, and hardware normally considered part of current and projected space/Counterspace platforms, programs, networks and support systems and associated C4I systems.

5.3.1.1 Space and Counterspace Threat System Analysis. The contractor shall analyze intelligence data from sources such as SIGINT, GEOINT, MASINT, HUMINT, open sources, and foreign materiel exploitation to assess the characteristics, performance, and vulnerabilities of foreign and Non-Government Organizations (NGO) Space/Counterspace systems and to understand anomalous system behavior.

5.3.1.2 Space and Counterspace Threat Systems Detailed Characterization. The contractor shall analyze foreign and NGO Space/Counterspace and Space/Counterspace support systems and subsystems to determine characteristics and performance based on foreign and NGO hardware and extensive foreign technical documentation including the integration of analysis results into total system capability assessments. The contractor shall analyze and determine the capabilities of Space/Counterspace components and subsystems to include hardware and software intended both for on-orbit and ground applications.

5.3.1.3 Spacecraft and Threat Signatures. The contractor shall collect and analyze, and/or calculate, spacecraft signatures (visible, infrared, radar, ultraviolet, x-ray, gamma). The contractor shall measure and/or assess emissivity and absorbance for satellite surfaces and shall compare calculated signatures to measured signatures, when possible.

5.3.1.4 Space System Employment. The contractor shall provide assessments on foreign countries' and NGOs' use of space-based services for intelligence, surveillance, and

reconnaissance (ISR), communications, and navigation applications including the use of both indigenous military, civil satellite systems, and space-based services available either commercially or through data sharing agreements. The contractor shall create tools and analytic methodologies to produce assessments of space system employment.

5.3.1.5 Space Mission Control. The contractor shall provide assessments of foreign countries' and NGOs' current and projected capabilities to identify, track, control, or make use of data from space systems via ground, ocean and space-based platforms. The contractor shall analyze identification and tracking systems including both cooperative and non-cooperative systems and methods to identify spacecraft functions, capabilities, and orbital parameters of both individual spacecraft/equipment and networks of spacecraft/equipment.

5.3.1.6 Space Launch Vehicles & Facilities. The contractor shall perform analysis on foreign space launch vehicle programs to include design and performance characteristics, reliability assessments, worldwide launch market evaluation, and space launch facility design, construction, and operations.

5.3.1.7 Space Systems Operations. The contractor shall provide analysis on command and control of foreign space systems to include the physical, temporal, and hierarchical structure associated with foreign task processing, evaluation, and dissemination (TPED).

5.3.1.8 Foreign Cyberspace Threat Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign Cyberspace threats to space systems and provide engineered assessments of those capabilities.

5.3.2 Space and Counterspace Modeling and Analysis Tool Development. The contractor shall develop or modify software tools and shall provide training, both oral and written, on the software programs.

5.3.2.1 Space and Counterspace Threat Design and Computer Aided Design (CAD) Computer Modeling. The contractor shall perform design-level studies and develop highly detailed 3-D geometric computer models of foreign spacecraft and Counterspace capabilities. These studies shall include detailed technical assessments of subsystems (sensors, guidance and control, power, structures, thermal control, etc.). The contractor shall assess all static and dynamic characteristics (i.e., external configuration, layout and location of internal subsystems, antenna and solar panel motion, construction techniques, and materials descriptions). The contractor shall apply engineering judgment consistent with foreign design practice should be used to complete the threat description where intelligence gaps exist. The contractor shall provide models in an industry standard portable format.

5.3.2.2 Space and Counterspace Threat Design and Functional Modeling. The contractor shall perform design-level studies and develop highly detailed models of foreign spacecraft based on NASIC approved processes of modeling using MATLAB/Simulink. These studies shall include detailed technical assessments of all major subsystems (sensors, guidance and control, power, structures, thermal control, etc.) as well as payloads. The models shall be developed so as to operate in a stand-alone environment for external clients

as well as for internal use for analysis. The contractor shall provide detailed modeling of the space environment to simulate the effects of the environment on the threat. The contractor shall apply engineering judgment consistent with foreign design practice should be used to complete the threat description where intelligence gaps exist. The contractor shall provide models in an industry standard portable format.

5.3.2.3 Spacecraft and Threat Optical Payload Modeling. The contractor shall perform design-level studies and construct highly detailed foreign optical satellite payloads. These studies shall include detailed design and technical assessments on the components that compose the optical payloads along with the functional performance of the payloads using industry standard tools. The analysis shall leverage all available and relevant sources of intelligence data as well as additional engineering sources of information. The contractor shall apply engineering judgment consistent with foreign design practice should be used to complete the threat description where intelligence gaps exist. The contractor shall provide models in an industry standard portable format.

5.3.2.4 Space and Counterspace Threat Modeling. The contractor shall perform modeling/digital simulation in the area of space defense including simulation software development & verification, and data generation & verification.

5.3.3 Advanced Space and Counterspace Technologies. The contractor shall analyze emerging space technologies that have impacts on space development and operational systems.

5.3.3.1 Signature Reduction Analysis. The contractor shall assess foreign capabilities to achieve signature reduction on aerodynamic, ballistic missile, and other space systems in the areas of Radar Cross Section (RCS) (including analysis of advanced technologies), IR, and electronic emissions.

5.3.3.2 Electromagnetic Analysis. The contractor shall analyze electromagnetic codes, tools and techniques for application to specific signature intelligence analytic issues.

5.3.3.3 Laser Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign Counterspace laser systems, associated infrastructure, and provide engineering assessments of those capabilities.

5.3.3.4 Electronic Warfare Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign Counterspace electronic warfare capabilities, associated infrastructure, and provide engineering assessments of those capabilities.

5.3.3.5 Command, Control & Communication (C3) Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign Counterspace C3 systems, associated infrastructure, and provide integrated assessments across the physical and virtual C3 domains.

5.3.3.6 Operational Space Intelligence Support. The contractor shall provide support to strategic and operational space intelligence requirements. The contractor shall input,

manage, and coordinate data relevant to foreign Counterspace operations and the facilities and equipment associated with these operations.

5.3.3.7 Space Intelligence Preparation of the Battlespace Intelligence Reporting. The contractor shall provide support to provide information research and database inputs to maintain and enhance SMD digital production.

5.3.3.8 Space Object Surveillance & Identification Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign SOSI radar and optical systems, associated infrastructure, and provide integrated all-source assessments.

5.3.3.9 Regional Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign Counterspace programs and provide integrated assessments of foreign Counterspace strategy, intent, and doctrine.

5.3.3.10 Anomaly Resolution Support. The contractor shall provide support to perform first-tier analysis of anomalous satellite events, determining their cause and source.

5.3.3.11 Signals Analysis Support. The contractor shall provide support to conduct detailed analysis and reporting of signals intelligence data.

5.3.3.12 Imagery Analysis Support. The contractor shall provide support to conduct detailed analysis of imagery intelligence data.

5.3.4 Anti-Satellite (ASAT) Analysis. The contractor shall provide assessments of foreign countries' and NGOs' abilities to interfere with satellites and satellite links (command, control, and data). Assessments shall include capabilities and limitations of individual systems and networks of systems.

5.3.4.1 Anti-Satellite Capability Analysis. The contractor shall analyze foreign ground-based, sea-based, air-based, and space-based anti-satellite systems; including conventional, nuclear, directed energy weapons, or ballistic missile defense systems used in an anti-satellite role.

5.3.4.2 Direct Ascent Anti-satellite Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign direct ascent anti-satellite weapons systems, associated infrastructure, and provide engineering assessments of those capabilities.

5.3.4.3 Nuclear, Directed Energy and Kinetic Anti-satellite Analysis Support. The contractor shall provide support to conduct detailed analysis of foreign nuclear, directed energy and kinetic anti-satellite weapons systems, associated infrastructure, and provide engineering assessments of those capabilities.

5.3.5 Integrated Navigation Warfare (NAVWAR) Assessments. The contractor shall assess Global Positioning System and space-based Position, Navigation, and Timing (PNT) integration into threat weapons potentially used against U.S. and allied forces, and encompasses associated doctrine, tactics, and employment.

5.4 Ballistic Missiles. The contractor shall perform scientific and technical analysis of foreign ballistic missile systems in the following areas: detailed external configuration; location and performance of internal components, technologies, and other subsystems; construction techniques and materials; guidance and control systems; propulsion systems; reentry systems, countermeasures, and ground support equipment.

5.4.1 Ballistic Missile Systems. The contractor shall perform analysis including static and dynamic characteristics of the weapon system (i.e., including the evaluation of operational capability, reliability, maintainability, survivability, vulnerabilities, proliferation of critical components, technology, production capability, specialty materials, or expertise to countries or groups hostile to the U.S. national security interests. Includes analysis of associated Cyberspace capabilities, dependencies, and vulnerabilities.

5.4.2 Ballistic Missile System Analysis. The contractor shall analyze data from intelligence sources such as SIGINT (signals intelligence), GEOINT (imagery), ELINT (electronics), RADINT (radar), HUMINT (human), foreign materiel exploitation, and open sources to assess the capabilities, performance, vulnerabilities, and anomalous activities of foreign ballistic missiles and associated systems and subsystems.

5.4.3 Ballistic Missile Sub-System Analysis. The contractor shall perform engineering analysis on current and projected foreign ballistic missile systems and subsystems. The analysis shall address engineering designs, performance assessments, airframe, propulsion, guidance and control, reentry vehicles, warheads, countermeasures, and penetration aids

5.4.4 Projected Ballistic Missile Systems. The contractor shall provide analysis of project foreign ballistic missile system capabilities, performance, and vulnerabilities, for a period of at least 20 years into the future, including assessment of operational needs/deficiencies; analysis of doctrine and doctrinal requirements; assessment of technological capabilities to support requirements, including identification of plants, factories, institutes, and personalities that are related to specific enabling technologies; assessment of sources or recipients of technology transfer; development of feasible conceptual designs that could fulfill mission requirements; and estimates of probable deployment dates.

5.4.5 Ballistic Missile System Signatures. The contractor shall analyze, and/or analytically derive, signatures (visible, ultraviolet, IR, radar, etc.) of foreign ballistic missiles and associated subsystems.

5.4.6 Ballistic Missile System Operational Analysis. The contractor shall assess the operational effectiveness of foreign ballistic missile weapon systems. The contractor shall evaluate the weapon as a completely integrated system combining the ballistic missile, ground support equipment, deployment facilities, command/control/communications, and signature information with country-specific associated doctrine and tactics. The contractor shall develop and modify computer code, threat models, and threat visualizations to reflect overall system performance characteristics.

5.4.7 Ballistic Missile Flight Models. The contractor shall conduct and document foreign ballistic missile flight simulation analysis to include missile trajectory modeling, attack simulation, and attack scenarios.

5.4.8 Ballistic Missile Vulnerabilities. The contractor shall analyze foreign ballistic missile vulnerability and hardening to lasers (IR to X-ray wavelengths), particle beam weapons (neutral and charged), and kinetic energy weapons.

5.4.9 Ballistic Missile Analytic Methodology and Tools. The contractor shall review, analyze, propose, and create ballistic missile analytic methodologies that improve on the techniques currently used to evaluate technical intelligence data and perform engineering analysis. Methodologies shall emphasize new approaches that provide increased analytical detail and accuracy. The contractor shall evaluate and/or modify current analytical tools and modeling software and create new analytical tools as required.

5.5 Forces, Technology, and Infrastructure. The contractor shall provide scientific and technical analysis and assessment of current and future foreign services capabilities and technologies and infrastructure (operational C4ISR, air, air defense, and ballistic missiles) including analysis of capabilities of civil air organizations to support military operations, in leadership; strategy; doctrine; intent; operational art; tactics, techniques, and procedures, training curriculums; readiness systems; training doctrine, and threat perceptions. Includes analysis of associated Cyberspace capabilities, dependencies, and vulnerabilities.

5.5.1 General Threat Technology Assessments/Forecasts. The contractor shall provide engineering and scientific assessments and forecasts in the area of technologies and their military impact on current and future air, ballistic missile, Counterspace, and space system, subsystem, and component capabilities, performance, and vulnerabilities.

5.5.1.1 Basic Emerging, Disruptive, and Breakthrough Technologies. The contractor shall perform analysis, evaluation and projection of the discovery, development, or exploitation of advanced military technologies by foreign state or non-state actors including assessments of the developments and trends in foreign scientific and technical capabilities that impact future applications in military defense and national security to prevent technology surprise to the U.S. and allied forces.

5.5.1.2 Apparent Emerging Air and Space Applications. The contractor shall provide engineering and scientific assessments and forecasts in the area of emerging or breakthrough technologies and their applications to current and future air, air defense, ballistic missile, C4, space and Counterspace systems to include: directed energy, active and passive sensors, propulsion, fuels, electronics, computing, analytical techniques, cybernetics, power, structures, low observable, stealth, counter-stealth, materials, Cyberspace operations, and manufacturing processes; also includes: associated resources, and technology acquisition and transfer efforts, weapon system acquisition processes, and details on R&D strategies, policies, decisions, practices, resource allocations, and priorities.

5.5.1.3 Electronic Combat Capability Analysis. The contractor shall analyze foreign ground-based, sea-based, air-based, and space-based electronic combat capabilities. The

analysis shall examine the means to jam/spoof sensors and communication links, to include modeling.

5.5.1.4 Air and Missile Defense Suppression Analysis. The contractor shall analyze foreign air and missile defense suppression capability through the use of jamming, anti-radiation missiles, air-to-surface weapons (guided and unguided), ballistic weapons, special operations, and advanced technologies.

5.5.1.5 Non-Conventional Warfare Analysis. The contractor shall characterize foreign non-conventional warfare including, but not limited to special-purpose forces, terrorist activity, Radio Frequency (RF) weapons, and emerging technologies.

5.5.2 Technology Transfer & Proliferation Assessments/Forecasts. The contractor shall provide assessments and long-range forecasts in the areas of technology transfer and its military impact, ability of recipient countries to assimilate transferred technology, and proliferation of weapons of mass destruction and/or their delivery systems.

5.5.3 Denial and Deception Analysis. The contractor shall assess the denial and deception strategy, doctrine, operational art, organization, leadership, personnel, tactics, techniques, procedures and systems of foreign air and space forces. Assessments shall include but not be limited to technical analysis of denial and deception systems (decoys, camouflage netting, coatings, and other devices); operational analysis of employment of denial and deception at the tactical, operational and strategic levels; and predictive analysis of future denial & deception capabilities.

5.5.4 Infrastructure Assessments. The contractor shall perform analysis of service infrastructure, service modernization, service readiness, and service sustainability including assessments of the composition, demographics, disposition, logistics, strength, vulnerabilities, training status, tactics, combat effectiveness, mobilization, employment of forces, and other relevant information concerning the personnel, units, facilities, and equipment.

5.5.4.1 Leadership Assessments. The contractor shall conduct assessments of military air services leadership; their perceptions of the threat and their capabilities/vulnerabilities; their perception of the U.S.; their goals, motivations, and intentions; and their ability/capability to pursue them.

5.5.4.2 Civilian Air Systems Capabilities. The contractor shall perform analysis of technical characteristics capabilities, performance, limitations, effectiveness, and vulnerabilities of foreign civilian aircraft, their materials, production techniques, and related RDT&E programs.

5.5.4.3 Behavioral Influences Analysis. The contractor shall assess the influence vulnerabilities and susceptibilities of foreign air & space forces personnel, and personnel in other organization/groups of interest, at the operational level with emphasis on organizational and group dynamics. The contractor shall predict likely adversary intent and behavior, and formulate recommendations for influencing behavior to achieve the U.S. operational commander's desired effects.

5.5.4.4 Projected Air Systems and Forces Analysis. The contractor shall provide analysis of projected foreign air threat system capabilities, performance, and vulnerabilities for a period of at least 20 years into the future. The contractor shall develop feasible conceptual designs that could fulfill mission requirements; and estimates of probable deployment dates of foreign threat systems capabilities, performance, and vulnerabilities, for a period of at least 20 years into the future, including assessment of operational needs/deficiencies; analysis of doctrine and doctrinal requirements; assessment of technological capabilities to support requirements, including identification of plants, factories, institutes, and personalities that are related to specific enabling aerospace technologies; assessment of sources or recipients of technology transfer; feasible conceptual designs that could fulfill mission requirements; and estimates of probable deployment dates.

5.5.4.5 Projected Space and Counterspace Systems and Forces. The contractor shall create conceptual designs to fulfill mission requirements and estimates of probable deployment dates of space systems and forces of foreign countries and NGOs at least 20 years into the future. Assessments shall include analysis of the threat or spacecraft, payload, orbital characteristics, operations, mission control, and launch systems. The contractor shall provide analysis of project space systems and forces of foreign countries and NGOs at least 20 years into the future. Analysis shall include: operational needs/deficiencies; doctrine; employment concepts; technological capabilities to support requirements, including identification of plants, factories, institutes, and personalities that are related to specific space/Counterspace technologies; sources or recipients of technology transfer; development of feasible conceptual designs to fulfill mission requirements; and estimates of probable deployment dates. Assessments shall include analysis of the threat or spacecraft, payload, orbital characteristics, operations, mission control, and launch systems.

5.5.5 Operational Threat Environment. The contractor shall assess, analyze, and document the current, projected, and reactive operational environment.

5.5.5.1 Force Level Analysis. The contractor shall characterize foreign offensive and defensive force levels, roles and missions, doctrine, strategy, tactics, and training.

5.5.5.2 Socio-Economic and Other Factors Analysis. The contractor shall characterize foreign socio-economic, ethnic, political, religious, etc., factors that influence force levels, roles and missions, military doctrine, strategy, training, and tactics.

5.5.5.3 C4I Analysis. The contractor shall analyze foreign command, control, communications, computers and intelligence (C4I) infrastructure and capabilities.

5.5.5.4 Attack Capability Analysis. The contractor shall characterize foreign attack capabilities, including force size, composition, and attack timing, against both defended and undefended point and area targets.

5.5.5.5 Information Operations Analysis. The contractor shall characterize foreign information operations capabilities relative to information gain, exploit, attack, and defend.

5.5.5.6 Camouflage, Concealment and Deception Analysis. The contractor shall characterize the employment of foreign camouflage, concealment, and deception (CC&D)

equipment that supports foreign operation or strategic denial and deception activity. The contractor shall assess foreign nation capability to develop or implement CC&D technology that is employed to protect aircraft, ballistic missiles, selected ground vehicles, and strategic facilities, and assess its ability to deny or degrade U.S. ISR sensors, and the U.S. reconnaissance, surveillance, targeting, and acquisition capability.

5.5.5.7 Logistics Analysis. The contractor shall assess foreign logistics, support, and production capabilities.

5.5.6 Regional Air and Space Forces Analysis. The contractor shall assess the force structure, composition, leadership, personnel, strategy, doctrine, operational art, and tactics of foreign air and space forces and other organizations of interest, with emphasis on the integrated and synergistic employment of air, space and information capabilities to achieve strategic, operational and tactical effects. Analysis shall focus on current capability and predicting future capability up to 20 years in the future. In particular, provide assessments of military training and exercises, of air, space and missile forces, to include Information operations (electronic warfare, counter-space, cyber, etc.), in order to provide insight into intent and capabilities of the force.

5.5.7 Integrated Threat. The contractor shall assess, analyze, and document the current, projected, and reactive integrated threat, that is, the synergy of threat targets, system specific threats, and the operational threat environment that defines the complete war fighting capability of an adversary.

5.5.7.1 Systems Integration Analysis. The contractor shall analyze foreign capability to integrate offensive, defensive, and defense suppression operations to defeat or degrade current and future US offensive and defensive systems.

5.5.7.2 Theater Modeling Analysis. The contractor shall perform quantitative modeling of US/foreign strategic and theater exchanges.

5.5.7.3 Defensive Systems Modeling Analysis. The contractor shall perform quantitative modeling of US ballistic missile and/or other air and space defense systems to included architectures and related measures of effectiveness.

5.5.7.4 Foreign Perceptions Analysis. The contractor shall characterize foreign perceptions of current and future US offensive and defensive systems including weapons, sensors, communications, and countermeasures.

5.6 Open Source Intelligence (OSINT.) The contractor shall collect, process (to include translation of foreign language where applicable), exploit, and disseminate primarily foreign open source information and OSINT analysis to support the NASIC all-source mission and the broader Intelligence Community.

5.6.1 OSINT Analytic Methodology and Tool Development. The contractor shall review, analyze, propose, and develop OSINT analytic methodologies that improve on the techniques currently used to perform collection, processing (to include foreign language translation), exploitation, and dissemination of scientific and technical open source data.

Methodologies shall emphasize new approaches that promote enhanced OSINT analytic tradecraft. The contractor shall evaluate and/or modify current analytical tools and software and develop new analytical tools as required.

5.6.2 OSINT Translation Tool Development. The contractor shall create and maintain specialized analysis tools for translation of foreign language scientific and technical textual information in support of Open Source and all-source intelligence analysis and production including specialized machine translation routines and applications for Government use and ownership.

5.7 Human Intelligence (HUMINT.) The contractor shall collect HUMINT information and support HUMINT collection to support the HUMINT missions of NASIC, Air Force, and the Intelligence Community. Specialized HUMINT collection qualifications may be required.

5.8 Analyst Training. The contractor shall cultivate and exercise relationships with NASIC training personnel to maximize the benefits from existing NASIC opportunities. The contractor shall document and report the relevant findings.

5.8.1 Cadre of Mentors. The contractor shall identify and educate a cadre of mentors available to guide new NASIC analyst development. The contractor shall document with verbal and/or written presentations and technical reports.

5.8.2 Exercise Support Requirements. The contractor shall conduct exercise scenario development and execution to define/determine where additional analysis and development needs are required. The contractors shall document with verbal and/or written presentations and written report findings upon exercise completion.

5.9 SIGINT. The contractor shall perform SIGINT data analysis, data processing, data management, analytic techniques development and implementation, IT management, IT and specialized hardware acquisition, system engineering, system integration and training development as they relate to SIGINT analysis.

5.9.1 System Engineering and Integration. Tasks of this type shall require the contractor to develop, procure, and deliver hardware/software system, system upgrade or system components to meet defined performance criteria. The resulting hardware/software shall be used to process, analyze, exploit and report on collected data.

5.9.1.1 The contractor shall review the current state of the art in SIGINT and, to the greatest extent practical, shall adhere to NASIC and SIGINT community standards when recommending or making hardware and software modifications, updates, or changes for hardware and software where practical. Contractor shall first obtain written Government approval before implementing such non-standard solutions.

5.9.1.2 The contractor shall deliver software-intensive turnkey systems, system upgrades, or system components for SIGINT processing and analysis. Systems will consist of general purpose IT and specialized signal processing hardware and contractor-created software.

5.9.1.3 The contractor shall provide the government with a system design modification or upgrade document which shall include major features of the design, lists of hardware, software, and firmware to be used, task milestones, performance measures/goals and a statement of expected future year costs to the government. Changes to the task milestones or performance measures require government approval by CR or ACR.

5.9.2 System Support. Tasks of this type shall require the contractor to operate, maintain, update, modify, expand, document, or analyze a SIGINT system or systems. Performance of these tasks may require the contractor to update, modify, or expand the NASIC SIGINT system in question by adding, removing or updating hardware, software or firmware or by modifying the configuration of the system or its components. The contractor shall perform the following:

5.9.2.1 Requirements may be scheduled or ad-hoc. Due dates for scheduled functions shall be identified in the TO and reviewed at the task kickoff meeting. The TO shall identify the types of ad-hoc functions to be performed; ad-hoc function assignments will be accompanied by a due date.

5.9.2.2 When the contractor needs to make a change to the NASIC SIGINT system, the contractor shall submit a request for change (RFC) document prior to performing the modification when the modification changes the processing or storage capacities or physical node count of the system by more than 10%, incurs on-going costs for the government (such as software licensing), or has the potential to make the system unavailable to 10 or more users for a period of 60 minutes or more in the event of an upgrade failure. The government may waive this requirement on a case-by-case basis. All waivers will be granted in writing.

5.9.2.3 Request for change (RFC) documents shall identify the intended result of the change; future year costs associated with the change; planned date of change; all hardware, software, and firmware components to be added, removed or modified; network address changes; an installation plan and a back-out plan in the event of failure.

5.9.3 SIGINT Techniques Implementation. Tasks of this type shall require the contractor to implement a new or improved analytic, processing, or training function. The deliverable for these efforts shall most commonly be a software routine or training module, but could also include hardware, analysis of a process or algorithm, or a study.

5.9.3.1 The contractor shall review the current state of the art in SIGINT and adhere to NASIC and SIGINT community standards for hardware and software to the greatest extent. The Contractor shall not introduce or use non-standard hardware and software without first obtaining written Government approval from CR or ACR.

5.9.3.2 The contractor shall provide the government with an implementation plan which shall include major features of the deliverable; lists of hardware, software, and firmware to be used; task milestones; required features and a statement of expected future year costs to the government. Changes to the task milestones or required features require government approval by CR or ACR

5.9.3.3 The contractor shall develop databases and web hosted products to support NASIC finished intelligence production. This includes database development, database verification, data generation, and data verification. Database development includes generation of the database structure and input of the data into the database. Database development will be consistent with NASIC corporate strategies, which includes the KPS.

5.9.4 SIGINT Analysis. Tasks of this type shall require the contractor to perform or support SIGINT analysis. Analysis duties may include finding, ordering, loading, screening, processing, analysis, and reporting of SIGINT data; consultation with government or contractor SIGINT analysts; and presentation of the results of analysis or a topic area with material bearing on SIGINT data analysis.

5.9.4.1 The contractor shall conduct SIGINT analysis or analysis support as specified in the TO. The contractor shall be responsible for producing product types described in the TO. Product due dates may be specified in the TO or may be provided in writing after TO award. Product due dates may not be changed except by TO modification.

5.9.5 NASIC Data Management System (NDMS) Upgrades and Enhancements. The contractor shall upgrade and enhance the NASIC Data Management System (NDMS) to provide long-term storage and management capabilities for specialized signals and data sets. The contractor shall automate data management processes, improve interfaces with NASIC and national databases and systems used for management, tracking, identifying, transmitting, cataloging, and storing of signals data. The contractor shall implement hardware and software system improvements and expansion to the existing storage sub-systems and data management to facilitate growing mission, access to new data sets, improve access speeds, and reduce system administration overhead burden and maintenance costs.

6.0 Delivery Schedule

Deliverables and schedule will be provided at the TO level. All data items shall be delivered to the Government in compliance with the established performance measures and quality requirements as specified.

7.0 Meeting Attendance/Travel

7.1 Meeting Attendance. The contractor shall participate in regular team meetings, technical interchange meetings, and interface control working group meetings as required. The contractor shall prepare and present briefings to the Government when requested on the results of efforts undertaken for this PWS.

7.2 Travel Requirements. The Contractor may be required to travel within the CONUS and OCONUS. Travel (to include security clearance requests) within the CONUS must be coordinated and authorized by the GSA CO or Government Technical Monitor at least 15 business days prior to trip (unless notification was received by the CO or Government Technical Monitor after that period) and prior to incurring costs. Contractor costs for travel will be reimbursed in accordance with FAR 31.205-46, in arrears. The travel costs shall be

reasonable and allowable as defined in FAR 31.201 and in accordance with the limitations of the Joint Travel Regulation.

For OCONUS travel, the contractor shall comply with the Foreign Clearance Guide (FCG) and shall be responsible for ensuring timely compliance with all FCG requirements. The contractor shall be responsible for all preparations to include, passports, inoculations, and transportation expenses. All clearance requests shall be sent to the GSA CO or Government Technical Monitor at least 30 calendar days prior to the trip (unless notification was received by the CO or Government Technical Monitor after that period) and prior to incurring costs. The travel costs shall be reasonable and allowable as defined in FAR 31.201 and in accordance with the limitations of the Department of State Standardized Regulation.

The contractor shall invoice monthly on the basis of cost incurred. The contractor must provide documentation in support of all travel expenses. The contractor will not be reimbursed for local travel (within a 50-mile radius of the Government/contractor's facility) or commuter travel (commute from home to work site).

Invoice submissions including travel costs shall include completed travel expense sheets (i.e., travel voucher) for each trip and each employee who traveled. The travel expense report, receipts of \$75 or more (with exceptions being lodging and transportation), and supporting documentation (e.g., approval email for exceeding per diem rates, cost comparisons, etc.) shall be submitted with the invoice. Expense report(s) must include the traveler's name, dates of travel, destination, purpose of travel, Approval Authority documentation (e.g., copy of the e-mail authorizing travel by Government official), and cost for each trip. All travel costs shall be compiled into the Government provided travel expense sheet provided within the TO or similar document that has been determined to be acceptable by the Government. The entire submission shall be complete and organized to enable the Government to complete an efficient review. Submissions that are not complete and organized are subject to rejection.

8.0 Personnel

8.1 The contractor shall ensure personnel performing on TOs have the proper credentials allowing them to work in the U.S. Persons later found to be undocumented or illegal aliens will be remanded to the proper authorities.

8.2 **Personnel Skill Levels.** The skill level an individual qualifies for is dependent upon relevant education, experience and capabilities of the individual which equip him/her to perform within the proposed labor category. For each TO, the contractor shall propose the required disciplines, skill mix and level, which are most effective for accomplishing the task.

8.2.1 The contractor shall propose individuals with skills meeting the requirements specified in the subsequent TO PWS'.

8.3 **Key Personnel.** Key Personnel are defined as those individuals who are essential to the work being performed. Key personnel proposed shall be qualified in the appropriate labor category. The contractor shall provide resume(s) in sufficient detail to allow the Government

to assess the qualifications, experience, and security clearance level of the proposed key personnel. The contractor's key personnel shall have valid TOP SECRET/Sensitive Compartmented Information (TS/SCI) security clearances and there shall be a sufficient number of appropriately cleared personnel to handle, store, work with, generate, and manage the classified information associated with these requirements.

8.3.1 Key Personnel Substitution. The contractor shall not remove or replace any personnel designated as Key Personnel without making a written request to and receiving written concurrence from the CO. The contractor's request for a change to Key Personnel shall be made no later than ten (10) calendar days in advance of any proposed substitute(s) and shall include a justification for the change. The request shall (1) indicate the labor category or labor categories affected by the proposed change, (2) include resume(s) of the proposed substitute in sufficient detail to allow the Government to assess their qualifications, experience, and security clearance level, and (3) include a statement addressing the impact of the change on the contractor's performance.

8.3.2 Non-Key Personnel Substitutions

8.3.2.1 The contractor shall ensure that all proposed replacements (temporary or permanent) meet the security requirements for the replaced individual and all substituted personnel shall have equal or better qualifications than the labor category qualifications they replace, subject to the Government's discretion.

8.3.2.2 The contractor shall notify the Government of any potential vacancy and prior to any staff member being removed, rotated, re-assigned, diverted or replaced.

8.3.3 Continuity of Qualified Personnel. The contractor shall maintain sufficient staffing levels to accomplish all required tasks. This includes a sufficient number of personnel with appropriate security clearance to handle, store, work with, generate, and manage any classified information associated with this BPA and any TOs awarded under this BPA.

8.3.3.1 Personnel Transition. The contractor shall make every effort to perform tasks without loss of service to the Government. This may necessitate the use of temporary personnel to fill short term gaps between permanently assigned employees. Failure of the contractor to employ an adequate number of qualified, appropriately cleared personnel will not be an excuse for failure to perform this work within the cost, performance, and delivery parameters of this contract or any TO awarded under this BPA.

8.4 Management and Training. The contractor shall be responsible for selecting personnel who are well qualified to perform the required services, versed in supervising techniques used in their work, and for keeping personnel informed of all improvements, changes, and methods of operation.

8.5 Exceptions to Personnel Qualifications. NASIC will accept nationally recognized experts and other personnel well qualified in the various labor categories in lieu of specified degree requirements on a case by case basis. When requested, the contractor shall furnish the specific qualifications of each individual proposed to work on the task. If key individuals are proposed who the contractor claims are nationally recognized experts or otherwise well

qualified individuals, sufficient detail should be given to allow evaluators to verify this claim. Examples of special qualifications that will be recognized will include, but not be limited to: (a) years of experience in the discipline(s) required for this effort; (b) publications; (c) presentations at national level conferences; (d) patents; (e) copyrights; (f) professional affiliations; (g) university affiliations; and (h) special recognition(s), awards, and honors. All nationally recognized experts shall adhere to the same security clearance requirements, standards of conduct, and moral and ethical requirements. NASIC reserves the right to disapprove personnel not believed to be technically qualified.

9.0 Government Furnished Facilities, Equipment And Information

9.1 Government Furnished Equipment/Government Furnished Property (GFE/GFP).

The contractor shall have access to the GFE/GFP specified below. If the contractor requires any additional GFE/GFP to accomplish individual TOs, the contractor shall specify the requirements in the technical proposal, and shall be subject to Government approval. Should the Government disapprove any GFE/GFP requested in the proposal; the contractor shall be prepared to accomplish the requirements of the PWS without the requested GFE/GFP.

9.1.1 Facilities and Services NASIC will provide work space, furniture, access to business telephones (for business purposes only) and the computer time as required for work performed on-site at Wright Patterson AFB, OH at no additional cost to the contractor. Any requirements for additional GFE will be stated in each TO. All GFE shall be returned at the end of the period of performance unless otherwise stated in writing by the contracting officer.

9.1.2 Information Sources. Qualified Government personnel will be available to provide technical input, answer questions, review completed draft deliverables and provide feedback. Timely communication is essential to meet shortened suspense dates, particularly as it relates to documentation and informational meetings and briefings. NASIC will provide access to JWICS, NIPRNET, and all-source intelligence data required to complete the items in the PWS.

9.1.3 Contractor Liability. The contractor shall conserve and protect Government resources. The use of these resources for non-Governmental use is prohibited. The contractor shall repair any Government-owned equipment, which is damaged through or by the fault of the contractor, with equipment of equal or better quality, at no cost to the Government. All repairs and/or replacement of GFE/GFP must be pre-approved by the contracting officer.

9.1.4 GFE/GFP Inventory. The contractor shall maintain a current list of all GFE/GFP broken out by active task order and provide it to the contracting officer.

9.2 Rehabilitation Act Compliance (Section 508). Unless otherwise exempt, all services and/or products provided in response to this requirement shall comply with Section 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d), and the Architectural and Transportation Barriers Compliance Board Electronic and Information Technology (EIT) Accessibility Standards (36 CFR part 1194.)

10.0 Place of Performance

(b) (4)

11.0 Security

11.1 Special Access Program (SAP) access may be required of certain personnel on some TOs.

11.2 The contractor shall submit a DD Form 254 for all assigned subcontractors within 30 calendar days of issuance of first TO from this BPA.

11.3 The contractor shall submit an SCI Eligibility Nomination Package and SF86 for each proposed individual requiring TS/SCI to the COR within 10 calendar days of TO award.

11.3.1 In the event an individual's eligibility decision exceeds 30 calendar days beyond the TO award date, the Government reserves the right to request the nomination of a replacement candidate. Where no suitable candidate is nominated within 10 calendar days of the Government request, the Government reserves the right to cancel the TO award and issue a subsequent TO award.

11.4 **The Use of Foreign Nationals.** A foreign national is defined as all persons not citizens of, not nationals of or immigrant aliens to the U.S. It is expected that some materials marked NOT RELEASABLE TO FOREIGN NATIONALS (NOFORN) will be passed to the contractor in support of various tasks issued. Any Foreign National will be prohibited from reviewing material with this handling caveat. Per DoD 5220.22-R, dated 17 Feb 87, paragraph 1-237, Immigrant alien is defined as any person lawfully admitted into the U.S. under an immigration visa for permanent residence.

11.5 **Privacy Act Information.** The provisions of the Privacy Act of 1974 protect information, and, therefore all contractor personnel and any subcontractors assigned to this contract shall take the proper precautions to protect the information from unauthorized disclosure.

11.6 **Operational Security (OPSEC).** Critical Information (CI) associated with any TO shall be protected to prevent adversary collection and exploitation. The contractor shall implement security requirements as directed by the Government's OPSEC Plan including initial training and reoccurring training, which shall be provided as Government Furnished Information (GFI).

11.7 **Non-Disclosure Agreement.** When specified, contractor personnel shall complete and sign a "Contractor Employee Non-Disclosure Agreement". A copy of each signed and witnessed Non-Disclosure agreement shall be submitted to the contracting officer prior to performing any work.

11.8 Intelligence Oversight Reporting and Training Requirements. In accordance with DoDD 5148.13, Intelligence Oversight, contractor personnel are required to report any Questionable Intelligence Activity (QIA) or Significant or Highly Sensitive Matter (S/HSM) to the USAF and GSA COR. Per AFI 14-104, all contractor personnel are required to complete initial Intelligence Oversight training within 60 days of assignment and refresher training annually thereafter.

12.0 Special Instructions

12.1 Guaranteed Final Report. Final reports shall be required for each subtask and shall be defined at the TO level.

12.2 Contractor Holidays. The prices/costs in the contract include holiday observances; accordingly, the Government will not be billed for such holidays. Any work to be performed on an observed holiday, shall be submitted for approval to the CO a minimum of 10 days before the work is to occur. The request shall include the name of the contractor, the number of hours requested, and a Government POC who will be available to sign the contractor in and out of the facility. If approved by the CO, the contractor shall only bill the Government at the established hourly rate, and not at a higher holiday/overtime rate. The following days are considered holidays:

12.2.1 All days issued by Executive Order by The President of the United States;

12.2.2 New Year's Day

12.2.3 Martin Luther King Jr. Day

12.2.4 President's Day

12.2.5 Memorial Day

12.2.6 Independence Day

12.2.7 Labor Day

12.2.8 Columbus Day

12.2.9 Veteran's Day

12.2.10 Thanksgiving

12.2.11 Christmas

12.3 Identification of Contractor Personnel. Contractors shall identify themselves as contractors during meetings, telephone conversations, and in electronic messages, or correspondence. All contractor-occupied Government facilities shall be clearly identified with contractor supplied signs, or name plates identifying these are contractor work areas.

12.4 Man-year Definition.**(b) (4)****(b) (4)**

12.5 Close-Out Procedures. The contractor is required as a deliverable of each TO to provide a final invoice no later than 30 calendar days after the end of each individual TO period of performance. Additionally, the contractor shall provide a Release of Claims no later than 60 calendar days from the submittal of the respective TO final invoice. The order will be modified for closeout.

12.6 Emergency Conditions. In the event an emergency is declared for WPAFB necessitating the implementation of an alternate work schedule (other than a standard 8-hour day, Monday-Friday work week), services provided under this contract may require implementation of an alternate work schedule, not to exceed a 40-hour work week. The Contracting Officer will make notification to the appropriate contractor's point of contact. A modified work schedule will be adopted for the duration of the declared emergency and the contractor will comply with the provisions of that alternate work schedule.

12.7 Information Technology (IT)

12.7.1 All IT solutions implemented at NASIC shall conform to and shall be in compliance with the NASIC Enterprise Architecture as published by the Enterprise Architecture Office (EAO) and approved by the NASIC Chief Information Officer (CIO). Deviations from the NASIC IT standards shall be addressed through the processes outlined in NASICI 33-108 and NASICI 90-103 accordingly. All contractors and personnel requiring accounts with elevated system/network privileges shall be trained and certified in accordance with DoD 8570.01-M – Information Assurance Workforce Improvement Program and DFARs 252.239-7001, Information Assurance contractor Training and Certification Program.

12.7.2 All IT solutions developed under this effort shall be fully turned over to the Government without use restriction or limitation on the Government's ability to provide the IT solution and/or source code to any other third party.

12.8 Contractor Manpower Reporting – Enterprise – wide Contractor Manpower Reporting Application. The contractor shall report all labor hours required for performance of services executed during the Government Fiscal Year no later than October 31 of each calendar year. The contractor shall completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>.

12.9 Personal Service. The client determined that use of the GSA requirements contract to satisfy this requirement is in the best interest of the Government, economic and other factors considered, and this BPA is not being used to procure personal services prohibited by the Federal Acquisition Regulation (FAR) Part 37.104 titled "Personal Services Contract". The Contractor agrees that this is a non-personal services BPA. The Contractor is not, nor shall it hold itself out, to be an agent or partner of, or joint venture with, the Government.

The Contractor agrees that his/her personnel shall neither supervise nor accept supervision from Government employees. The Government will not control the method by which the

contractor performs the required tasks. Under no circumstances shall the Government assign tasks to, or prepare work schedules for, individual contractor employees. It shall be the responsibility of the contractor to manage its employees and to guard against any actions that are of the nature of personal services, or give the perception of personal services. If the contractor feels that any actions constitute, or are perceived to constitute personal services, it shall be the contractor's responsibility to notify the CO immediately. These services shall not be used to perform work of a policy/decision making or management nature, i.e., inherently Governmental functions. All decisions relative to programs supported by the contractor shall be the sole responsibility of the Government.

12.10 CONTRACTOR PERFORMANCE ASSESSMENT REPORTING SYSTEM (CPARS) Assessment. Upon request by the Government, the contractor shall submit a self-evaluation of their performance at least annually utilizing a Government provided template. From time of Government request, the contractor shall have 9 business days (i.e. initial request due date of 1 week with an additional 2 business day follow-up) to provide input to the GSA COR. The contractor self-assessment will then be submitted to the Government client where they will utilize this information to formulate an independent performance evaluation that will be processed through the Contractor Performance Assessment Reporting System. The requirements of the FAR and its supplements as it pertains to CPARS reporting shall be adhered to.

Appendix 1: SIGINT Software

1.0 Software Development. All software shall be NASIC APPOMATTOX compliant; therefore, software that is not compatible with the APPOMATTOX architecture shall not be considered as a viable submission. Software that is intended to extend the general APPOMATTOX capabilities shall be considered on a case by case basis. Software that falls into this category shall require government approval prior to development or utilization for all software projects.

1.1 Requirements Analysis. Perform analyses of infrastructure, operational, technical, functional, data and interface requirements. Design, develop, compare and evaluate potential technical solutions, concepts or alternatives to meet requirements. Transform statements of requirements into designs that satisfy NASIC needs in a sound technical and cost effective manner. Assess, determine and document the impacts that such solutions or other emerging technologies may have on NASIC mission.

1.1.1 Provide system architectural designs, ensuring that all the requirements for the software items are allocated, refined and documented to facilitate detailed design. Designs shall elaborate and/or refine software requirements to form a basis for the development and implementation of the capabilities and shall conform to NASIC and government standards, and best practices. Designs shall also be consistent with unique user, service, command, agency or community oriented policies and procedures. The design process may include Preliminary, Detailed and Critical Design Reviews (PDRs, DDRs and CDRs).

1.2 Perform software requirements analysis and document the software level requirements describing, at a minimum, the functional capability specifications, performance, interfaces, qualifications requirements, security specifications, human factors engineering, data definition and database requirements, installation and acceptance requirements. Document and present the results.

1.3 Use of NDS. Maintain cognizance of developments in COTS and GOTS software. All development shall maximize the use of such software. Evaluate the planning performed for the use of NDS to ensure that all applicable PWS requirements have been met. Upon acquisition, evaluate the software to determine whether it performs as documented and is adequately documented. Ensure that the software will pass NASIC security and/or information assurance testing (e.g., CTO testing) prior to incorporating it into the software being developed.

1.4 NDS software. For all software/hardware purchased or licensed, arrangements shall be made for licensing and maintenance agreements to transfer to the government upon purchase. All hardware and software must be compliant with NASIC IT architecture and standards.

1.5 Develop/Implement/Code. Satisfy requirements by building system enhancements and/or new engineering developments. Perform software coding and testing for each software component/item in accordance with the approved SDP

1.6 Modification of existing software and documentation. All software to be developed or enhanced shall utilize the design and coding standards of the existing software. All modifications to existing software shall be documented as updates to the existing documentation. All software and database development must adhere to NASIC-33-108 (NASIC

IT Management CONOPS) and its successors and/or addendums. NASIC/SC shall determine which components of NASIC-33-108 will be tailored out on a case-by-case basis. (Ref: Table 7.3 – deliverable 12.) Anticipated documentation includes:

- 1.6.1 Functional Description
- 1.6.2 Data Base Specification
- 1.6.3 User Manual
- 1.6.4 Computer Operation Manual
- 1.6.5 Maintenance Manual
- 1.6.6 System/Subsystem Specification
- 1.6.7 Data Requirements Document
- 1.6.8 Software Unit Specification
- 1.6.9 Implementation Procedures
- 1.6.10 Training Material

1.7 System Documentation. Software documentation furnished under this BPA shall be delivered in electronic format compatible with Microsoft Visio or Office products. Typical documentation shall provide instruction on how to startup, shutdown and troubleshoot the system and lists of hardware and software used and physical and logical interface diagrams. Software delivered in support of SIGINT analysis shall be placed into the NASIC project on G-FORGE. Where applicable, documentation shall address:

- 1.7.1 Startup/shutdown procedures or scripts (to include reboots from unscheduled shutdowns)
- 1.7.2 Key system processes & how to monitor/fix/restart any failed processes or process components
- 1.7.3 Dependencies on other systems and resources
- 1.7.4 Location of all log files pertinent to system resources and applications
- 1.7.5 Rebuild procedures or scripts for a failed system including any procedures to rebuild storage or optional peripheral equipment
- 1.7.6 Rack elevations (in Visio format)
- 1.7.7 Hardware list
- 1.7.8 Software list with versions

- 1.7.9 System interconnection diagrams (in Visio format)
- 1.7.10 Integration. Increase the functional capability of the NASIC APPOMATTOX baseline through system engineering process to fully integrate into the software, documentation and programmatic baseline.
- 1.7.11 Perform system integration with other systems. Test the aggregates as they are developed, against their requirements. Perform software integration and testing. Integrate the software units and software components and test as the aggregates are developed. Ensure the requirements for the software are met.
- 1.7.12 Perform system and software integration and testing.
- 1.7.13 Perform software integration and testing. Integrate the software units and software components and test as the aggregates are developed. Ensure the requirements for the software are met.
- 1.7.14 Perform software qualification testing for each software item.
- 1.7.15 Conduct in-plant testing in accordance with the government-approved test plans. The approved test plans shall include properly formatted documentation necessary to obtain a CTO and other security and/or information assurance approvals. Document the results in the Test Report. (Ref: Table 7.3 – deliverable 12.)
- 1.7.16 Upon successful completion of in-plant testing, install and test at NASIC in accordance with government-approved test plans. Prior to installation into the NASIC production environment, all approvals for installation and all CTO/security and/or information assurance approvals must have been granted by the government. Document the results in the Test Report.

1.8 Configuration Management. Manage a CM and software maintenance process for assigned NASIC systems, activities, applications, databases and infrastructures; prepare and/or analyze BCRs and SPRs; provide implementation strategies in the form of Work Plans (WPs) for effort directed at single or multiple BCRs and/or SPRs or combinations of BCRs and SPRs as identified by the government; and implement software changes associated with BCRs and SPRs. Submit initial WPs and submit updates to WPs as requested by the government due to scheduling, requirements, or other changes.

1.9 Software Problem Reports. Upon receipt of a Software Problem Report (SPR) from the government, investigate the problem to determine probable causes, potential resolutions, effort required, characterizations of various approaches, advantages and disadvantages of approaches, schedule, risks and cost of alternative courses of action to resolve, work around or mitigate the effects of the problem. Present results to the government via a WP for review, discussion, disposition, coordination and approval. Each WP shall contain testable performance requirements, deliverable items, delivery schedule, and cost. Perform the effort in accordance with the government-approved WP to close the SPR keeping the government cognizant of the

status of the effort to achieve its goal of resolution within budget, performance and schedule. Participate in meetings to inform the government as to progress and/or need for approval to change the budget, scope, schedule or deliverables required as the situation may warrant. Deliver materials in compliance with NASIC configuration management, testing, installation practices and guidelines.

1.10 Baseline Change Requests. Upon receipt of a Baseline Change Request (BCR) from the government, perform a requirements analysis to define possible and recommended approaches, effort required, relationships to other ongoing effort, advantages and disadvantages of approaches, schedule, risks and cost of alternatives. Present results via a WP to the government for review, discussion, coordination and approval. Each WP shall contain testable performance requirements, deliverable items, delivery schedule, and cost. Perform the effort in accordance with the government-approved WP to develop the baseline change keeping the appropriate government representatives cognizant of the status of the effort towards achieving the objective within budget, performance and schedule. Participate in meetings to inform the government as to progress and/or need for approval to change the budget, scope, schedule or deliverables required as the situation may warrant. Deliver materials in compliance with NASIC configuration management, testing, installation practices and guidelines.

1.11 Certification and Fielding. Provide full documentation, functionality, and support to meet all testing, security, documentation and functional elements to transition the new or enhanced NASIC baseline capability to the field with full approval to operate at the NASIC and customer locations. Provide technical support for the installation, familiarization, certification and operation that will be maintained for each baseline and targeted customer. (Ref: Table 7.3 – deliverable 12.)

1.12 Perform and support all certification and security activities required to acquire security certification and approval to field. Provide all security and program documentation, support the program security testing, and comply with the NASIC approval processes for fielding the APPOMATTOX baseline(s) within NASIC. Provide familiarization training for system capabilities.

1.13 Distribute and install the developed baseline within the user environment, integrate and configure all required components required for site acceptance and operations.

ORDER FOR SUPPLIES AND SERVICES				IMPORTANT: See instructions in GSAR 553.370-300-1 for distribution		PAGE 1 OF 1 PAGE(S)	
1. DATE OF ORDER 09/04/2019		2. ORDER NUMBER 47QFLA19A0011		3. CONTRACT NUMBER GS00F350CA		4. ACT NUMBER	
FOR GOVERNMENT USE ONLY	5. ACCOUNTING CLASSIFICATION				6. FINANCE DIVISION		
	FUND 285F	ORG CODE Q05FA000	B/A CODE AA20	O/C CODE 25	AC	SS	VENDOR NAME
	FUNC CODE AF151	C/E CODE H08	PROJ./PROS. NO.	CC-A	MDL	FI	G/L DEBT
	W/ITEM	CC-B	PRT./CRFT	AI	LC	DISCOUNT	
7. TO: CONTRACTOR (Name, address and zip code) GSI Contracts AT&T GOVERNMENT SOLUTIONS, INC. 1900 GALLOWES RD STE 105 VIENNA, VA 221823865 United States 210-507-1989				8. TYPE OF ORDER B. DELIVERY		REFERENCE YOUR	
				Please furnish the following on the terms specified on both sides of the order and the attached sheets, if any, including delivery as indicated.			
				This delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above numbered contract.			
				C. MODIFICATION NO. P00000 TYPE OF MODIFICATION:		AUTHORITY FOR ISSUING	
9A. EMPLOYER'S IDENTIFICATION NUMBER (b) (4)		9B. CHECK, IF APPROP WITHHOLD 20%		Except as provided herein, all terms and conditions of the original order, as heretofore modified, remain unchanged.			
10A. CLASSIFICATION Contracts and Grants				10B. TYPE OF BUSINESS ORGANIZATION C. Corporation			
11. ISSUING OFFICE (Address, zip code, and telephone no.) GSA Region 05 Evan W Port 1734 CORPORATE XING O FALLON, IL 62269-3745 United States (618) 206 5196		12. REMITTANCE ADDRESS (MANDATORY) AT&T GOVERNMENT SOLUTIONS, INC. PO Box 3110 Oakton, VA 22124-9998 United States		13. SHIP TO (Consignee address, zip code and telephone no.) Holley J Robinson-Blouse NAIC/SCXA 4180 Watson Way Wright Patterson AFB, OH 45433 United States 937-257-5601			
14. PLACE OF INSPECTION AND ACCEPTANCE Holley J Robinson-Blouse NAIC/SCXA 4180 Watson Way Wright Patterson AFB, OH 45433 United States				15. REQUISITION OFFICE (Name, symbol and telephone no.) Benny Reyes GSA Region 05 2600 Paramount Place Ste 180 Fairborn, OH 45324 1111 United States (937) 431-5530			
16. F.O.B. POINT Destination		17. GOVERNMENT B/L NO.		18. DELIVERY F.O.B. POINT ON OR BEFORE 09/30/2024		19. PAYMENT/DISCOUNT TERMS NET 30 DAYS / 0.00 % 0 DAYS / 0.00 % 0 DAYS	
20. SCHEDULE							
Reference AT&T BPA ID05190006006							
CTA Members: AT&T (GS-00F-350CA), Ball Aerospace (47QTCA19D001P), Brilligent (47QRAA18D0062), Macaulay-Brown (GS-00F-063CA), Prescient Edge (47QRAA18D00CU) CITATION CODE(S) # R05FY2019IDV-AA20							
ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)		
T0001	BPA Base 5-Year Ordering Period	1	lot		(b) (4)		
21. RECEIVING OFFICE (Name, symbol and telephone no.) HQ NAIC, (937) 257 2359				TOTAL From 300-A(s)			
22. SHIPPING POINT Specified in QUOTE		23. GROSS SHIP WT.		GRAND TOTAL		(b) (4)	
24. MAIL INVOICE TO: (Include zip code) General Services Administration (FUND) The contractor shall follow the invoice instructions identified within the award documentation.		25A. FOR INQUIRIES REGARDING PAYMENT CONTACT: G A Finance Customer support		25B. TELEPHONE NO. 816-926-7287			
		26A. NAME OF CONTRACTING/ORDERING OFFICER (Type) Evan W Port		26B. TELEPHONE NO (618) 206-5196			
		26C. SIGNATURE (b) (6)					
GENERAL SERVICES ADMINISTRATION		1. PAYING OFFICE		GSA FORM 300 (REV. 2-93)			

